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NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	JAN 02	STN pricing information for 2008 now available
NEWS	3	JAN 16	CAS patent coverage enhanced to include exemplified prophetic substances
NEWS	4	JAN 28	USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats
NEWS	5	JAN 28	MARPAT searching enhanced
NEWS	6	JAN 28	USGENE now provides USPTO sequence data within 3 days of publication
NEWS	7	JAN 28	TOXCENTER enhanced with reloaded MEDLINE segment
NEWS	8	JAN 28	MEDLINE and LMEDLINE reloaded with enhancements
NEWS	9	FEB 08	STN Express, Version 8.3, now available
NEWS	10	FEB 20	PCI now available as a replacement to DPCI
NEWS	11	FEB 25	IFIREF reloaded with enhancements
NEWS	12	FEB 25	IMSPRODUCT reloaded with enhancements
NEWS	13	FEB 29	WPINDEX/WPIDS/WPIX enhanced with ECLA and current U.S. National Patent Classification
NEWS	14	MAR 31	IFICDB, IFIPAT, and IFIUDB enhanced with new custom IPC display formats
NEWS	15	MAR 31	CAS REGISTRY enhanced with additional experimental spectra
NEWS	16	MAR 31	CA/CAPplus and CASREACT patent number format for U.S. applications updated
NEWS	17	MAR 31	LPCI now available as a replacement to LDPCI
NEWS	18	MAR 31	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS	19	APR 04	STN AnaVist, Version 1, to be discontinued
NEWS	20	APR 15	WPIDS, WPINDEX, and WPIX enhanced with new predefined hit display formats
NEWS	21	APR 28	EMBASE Controlled Term thesaurus enhanced
NEWS	22	APR 28	IMSRESEARCH reloaded with enhancements
NEWS	23	MAY 30	INPAFAMDB now available on STN for patent family searching
NEWS	24	MAY 30	DGENE, PCTGEN, and USGENE enhanced with new homology sequence search option
NEWS	25	JUN 06	EPFULL enhanced with 260,000 English abstracts
NEWS	26	JUN 06	KOREAPAT updated with 41,000 documents
NEWS	27	JUN 13	USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications
NEWS	28	JUN 19	CAS REGISTRY includes selected substances from web-based collections
NEWS	29	JUN 25	CA/CAPplus and USPAT databases updated with IPC

reclassification data
NEWS 30 JUN 30 AEROSPACE enhanced with more than 1 million U.S.
patent records
NEWS 31 JUN 30 EMBASE, EMBAL, and LEMBASE updated with additional
options to display authors and affiliated
organizations
NEWS 32 JUN 30 STN on the Web enhanced with new STN AnaVist
Assistant and BLAST plug-in
NEWS 33 JUN 30 STN AnaVist enhanced with database content from EPFULL

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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=> file materials

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=> s flexible (L) polyurethane (L) diol (L) triol

42 FILES SEARCHED...

L1 4054 FLEXIBLE (L) POLYURETHANE (L) DIOL (L) TRIOL

=> s l1 (L) hydrodroformylation (L) raney (2w) nickel

L2 0 L1 (L) HYDRODROFORMYLATION (L) RANEY (2W) NICKEL

=> s l1 (L) hydroformylation (L) (raney (2w) nickel)

41 FILES SEARCHED...

L3 8 L1 (L) HYDROFORMYLATION (L) (RANEY (2W) NICKEL)

=> d l3 1-8 ibib abs

L3 ANSWER 1 OF 8 USPATFULL on STN

ACCESSION NUMBER: 2006:227438 USPATFULL

TITLE: Aldehyde and alcohol compositions derived from seed oils

INVENTOR(S): Lysenko, Zenon, Midland, MI, UNITED STATES
Morrison, Donald L., Fort Collins, CO, UNITED STATES
Babb, David A., Lake Jackson, TX, UNITED STATES
Bunning, Donald L., South Charleston, WV, UNITED STATES
Derstine, Christopher W., Winfield, WV, UNITED STATES
Gilchrist, James H., Dunbar, WV, UNITED STATES
Jouett, H. Ray, Houston, TX, UNITED STATES
Kanel, Jeffrey S., Hurricane, WV, UNITED STATES
Olson, Kurt D., Cross Lanes, WV, UNITED STATES
Peng, Wei-Jun, Hurricane, WV, UNITED STATES
Philips, Joe D., Lake Jacksosl, TX, UNITED STATES
Roesch, Brian M., Cross Lanes, WV, UNITED STATES
Sanders, Aaron W., Missouri City, TX, UNITED STATES
Schrock, Alan K., Lake Jackson, TX, UNITED STATES
Thomas, Pulikkotttil J., Midland, MI, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 20060193802	A1	20060831	
APPLICATION INFO.:	US 2004-551854	A1	20040422	(10)
	WO 2004-US12246		20040422	
			20050930	PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	US 2003-465663P	20030425 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	

LEGAL REPRESENTATIVE: THE DOW CHEMICAL COMPANY, INTELLECTUAL PROPERTY
SECTION, P. O. BOX 1967, MIDLAND, MI, 48641-1967, US
NUMBER OF CLAIMS: 34
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 1 Drawing Page(s)
LINE COUNT: 1284

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An aldehyde composition derived by hydroformylation of a transesterified seed oil and containing a mixture of formyl-substituted fatty acids or fatty acid esters having the following composition by weight: greater than about 10 to less than about 95 percent monoformyl, greater than about 1 to less than about 65 percent diformyl, and greater than about 0.1 to less than about 10 percent triformyl-substituted fatty acids or fatty acid esters, and having a diformyl to triformyl weight ratio of greater than about 5/1; preferably, greater than about 3 to less than about 20 percent saturates; and preferably, greater than about 1 to less than about 20 percent unsaturates. An alcohol composition derived by hydrogenation of the aforementioned aldehyde composition, containing a mixture of hydroxymethyl-substituted fatty acids or fatty acid esters having the following composition by weight: greater than about 10 to less than about 95 percent monoalcohol {mono(hydroxymethyl)}, greater than about 1 to less than about 65 percent diol {di(hydroxymethyl)}, greater than about 0.1 to less than about 10 percent triol, tri(hydroxymethyl)-substituted fatty acids or fatty acid esters; preferably greater than about 3 to less than about 35 percent saturates; and preferably, less than about 10 percent unsaturates. The alcohol composition can be converted into an oligomeric polyol for use in the manufacture of polyurethane slab stock flexible foams.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 2 OF 8 USPATFULL on STN

ACCESSION NUMBER: 2004:89059 USPATFULL
TITLE: Flexible emissive coatings for elastomer substrates
INVENTOR(S): Halladay, James R., Harborcreek, PA, UNITED STATES
Krakowski, Frank J., Erie, PA, UNITED STATES
Caster, Kenneth C., Cary, NC, UNITED STATES
Troughton, Ernest Barritt, JR., Raleigh, NC, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20040068036	A1	20040408
	US 6777026	B2	20040817
APPLICATION INFO.:	US 2002-265576	A1	20021007 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Miles B. Dearth, 111 Lord Drive, P.O. Box 8012, Cary, NC, 27512-8012		
NUMBER OF CLAIMS:	24		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	6 Drawing Page(s)		
LINE COUNT:	3618		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Emissive coatings for flexible substrates, preferably elastomers or elastomers bonded to metal are disclosed The coating composition is formed by combining parts (a) and (b) where part (a) comprises an

organic solution or aqueous dispersion of a functional group containing polymer or copolymer and thermal conductive filler; and part (b) comprises a liquid curing component, for example a poly isocyanate, a carbodiimide, or an amino resin. The coating compounds can be applied to an substrate either before or after the substrate has been vulcanized. The coatings can be cured at ambient temperatures and provide heat dissipation over long term service at elevated temperatures.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 3 OF 8 USPATFULL on STN

ACCESSION NUMBER: 97:45055 USPATFULL
 TITLE: Hydroxy-functional triamine catalyst compositions for polyurethane production
 INVENTOR(S): Van Court Carr, Richard, Allentown, PA, United States
 Listemann, Mark L., Whitehall, PA, United States
 Savoca, Ann C. L., Bernville, PA, United States
 PATENT ASSIGNEE(S): Air Products and Chemicals, Inc., Allentown, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5633293		19970527
APPLICATION INFO.:	US 1995-565518		19951130 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Gorr, Rachel		
LEGAL REPRESENTATIVE:	Leach, Michael, Marsh, William F.		
NUMBER OF CLAIMS:	21		
EXEMPLARY CLAIM:	1		
LINE COUNT:	641		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for preparing a polyurethane foam which comprises reacting an organic polyisocyanate and a polyol in the presence of a blowing agent, a cell stabilizer and a catalyst composition consisting essentially of 0-50 mole % compound I and 50-100 mole % compound II: ##STR1## wherein R is hydrogen, a C.sub.1 -C.sub.4 alkyl, C.sub.6 -C.sub.8 aryl, or C.sub.7 -C.sub.9 aralkyl group; and

n is 2 to 8.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 4 OF 8 USPATFULL on STN

ACCESSION NUMBER: 90:48873 USPATFULL
 TITLE: Trimethylolheptanes and use thereof
 INVENTOR(S): Omatsu, Toshihiro, Kurashiki, Japan
 Tokitoh, Yasuo, Kurashiki, Japan
 Yoshimura, Noriaki, Kurashiki, Japan
 Ishida, Masao, Kurashiki, Japan
 Yano, Makoto, Kurashiki, Japan
 Hirai, Koji, Kurashiki, Japan
 Matsumoto, Yoichi, Kamisu, Japan
 Kubo, Keiji, Kurashiki, Japan
 PATENT ASSIGNEE(S): Kurary Company, Ltd., Kurashiki, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4935488		19900619
APPLICATION INFO.:	US 1989-340791		19890420 (7)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1988-99115	19880420
	JP 1988-127678	19880524
	JP 1989-12666	19890120
	JP 1989-12667	19890120
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Kight, III, John	
ASSISTANT EXAMINER:	Acquah, S. A.	
LEGAL REPRESENTATIVE:	Oblon, Spivak, McClelland, Maier & Neustadt	
NUMBER OF CLAIMS:	31	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	5 Drawing Figure(s); 5 Drawing Page(s)	
LINE COUNT:	1724	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel trimethylolheptanes having three highly reactive hydroxyl groups are provided. They are useful as raw materials for the production of polyesters for use in or as raw materials or modifiers for paints, inks, adhesives, coating compositions and molding resins. Uses for the trimethylolheptanes are also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 5 OF 8 USPATOLD on STN
ACCESSION NUMBER: 1972:61906 USPATOLD
TITLE: DIACID BRIDGED RING COMPOUNDS
INVENTOR(S): LYNN JOHN W
HENRY JOSEPH P
TRECKER DAVID J
PATENT ASSIGNEE(S): UNION CARBIDE CORPORATION

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3646132	A	19720229
APPLICATION INFO.:	US 1969-846251		19690701

	NUMBER	DATE
PRIORITY INFORMATION:	US 1965-520298	19651209
	US 1969-846251	19690730
	US 1969-846256	19690730
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	WEINBERGER, LORRAINE A	
ASSISTANT EXAMINER:	GLEIMAN, E J	
LINE COUNT:	1678	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 6 OF 8 USPATOLD on STN
ACCESSION NUMBER: 1970:4861 USPATOLD

TITLE: NORBORNANE DIISOCYANATES
INVENTOR(S): LYNN JOHN W
HENRY JOSEPH P
TRECKER DAVID J
PATENT ASSIGNEE(S): UNION CARBIDE CORPORATION

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3492330	A	19700127
APPLICATION INFO.:	US 1966-520298		19660101

	NUMBER	DATE
PRIORITY INFORMATION:	US 1965-520298	19651209
	US 1969-846251	19690730
	US 1969-846256	19690730

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: PARKER, CHARLES B
LINE COUNT: 1827
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 7 OF 8 USPATOLD on STN
ACCESSION NUMBER: 1966:16685 USPATOLD
TITLE: Electrical resistive polyurethane resin from a mixture
of polyols containing nonadecanediol
INVENTOR(S): DE WITT ELMER J
MURPHY WALTER T

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3243414	A	19660329

	NUMBER	DATE
PRIORITY INFORMATION:	US 1963-270152	19630403

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
LINE COUNT: 807
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 8 OF 8 USPAT2 on STN
ACCESSION NUMBER: 2004:89059 USPAT2
TITLE: Flexible emissive coatings for elastomer substrates
INVENTOR(S): Halladay, James R., Harborcreek, PA, United States
Krakowski, Frank J., Erie, PA, United States
Caster, Kenneth C., Cary, NC, United States
Troughton, Jr., Ernest Barritt, Raleigh, NC, United States
PATENT ASSIGNEE(S): Lord Corporation, Cary, NC, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6777026	B2	20040817

APPLICATION INFO.: US 2002-265576 20021007 (10)
DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Cameron, Erma
LEGAL REPRESENTATIVE: Dearth, Miles B.
NUMBER OF CLAIMS: 35
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 6 Drawing Figure(s); 6 Drawing Page(s)
LINE COUNT: 3579

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Emissive coatings for flexible substrates, preferably elastomers or elastomers bonded to metal are disclosed The coating composition is formed by combining parts (a) and (b) where part (a) comprises an organic solution or aqueous dispersion of a functional group containing polymer or copolymer and thermal conductive filler; and part (b) comprises a liquid curing component, for example a poly isocyanate, a carbodiimide, or an amino resin. The coating compounds can be applied to an substrate either before or after the substrate has been vulcanized. The coatings can be cured at ambient temperatures and provide heat dissipation over long term service at elevated temperatures.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d his

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L1 4054 S FLEXIBLE (L) POLYURETHANE (L) DIOL (L) TRIOL
L2 0 S L1 (L) HYDRODROFORMYLATION (L) RANEY (2W) NICKEL
L3 8 S L1 (L) HYDROFORMYLATION (L) (RANEY (2W) NICKEL)

=> l1 (L) (raney (2w) nickel)

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=> s l1 (L) (raney (2w) nickel)

L4 57 L1 (L) (RANEY (2W) NICKEL)

=> s l4 not l3

L5 49 L4 NOT L3

=> s l5 and ratio

L6 45 L5 AND RATIO

=> s l6 and (ethanol or methanol or propanol)

42 FILES SEARCHED...

L7 33 L6 AND (ETHANOL OR METHANOL OR PROPANOL)

=> d l7 1-10 ibib abs

L7 ANSWER 1 OF 33 USPATFULL on STN

ACCESSION NUMBER: 2007:201150 USPATFULL
TITLE: Bioplastics, monomers thereof, and processes for the
preparation thereof from agricultural feedstocks
INVENTOR(S): Narine, Suresh, Alberta, CANADA
Sporns, Peter, Alberta, CANADA
Yue, Jin, Alberta, CANADA

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20070175793	A1	20070802
APPLICATION INFO.:	US 2007-649620	A1	20070104 (11)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2006-755770P	20060104 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	DANN, DORFMAN, HERRELL & SKILLMAN, 1601 MARKET STREET, SUITE 2400, PHILADELPHIA, PA, 19103-2307, US	
NUMBER OF CLAIMS:	40	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	87 Drawing Page(s)	
LINE COUNT:	3864	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates generally to polymers and monomers derived from agricultural feedstocks, and more particularly to methods for the production of monomers from renewable agricultural resources such as feedstocks, for example canola, flax and tallow, and polymers, in particular polyurethanes produced from monomers derived from such feedstocks. The present invention also relates to novel processes for the production of short-chain alcohols, as well as hydroxyl wax esters, from renewable feedstocks. An improved apparatus for carrying out ozonolysis reactions is also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 2 OF 33 USPATFULL on STN

ACCESSION NUMBER: 2005:264715 USPATFULL
TITLE: Activatable material and method of forming and using
same
INVENTOR(S): Kassa, Abraham, Shelby Township, MI, UNITED STATES
Harthcock, Matthew, Oakland Township, MI, UNITED STATES
Sendijarevic, Aisa, Troy, MI, UNITED STATES
Sendijarevic, Vahid, Troy, MI, UNITED STATES
PATENT ASSIGNEE(S): L&L Products, Inc., Romeo, MI, UNITED STATES (U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20050230027	A1	20051020
APPLICATION INFO.:	US 2005-89712	A1	20050325 (11)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2004-622442P	20041027 (60)

US 2004-562663P 20040415 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: DOBRUSIN & THENNISCH PC, 29 W LAWRENCE ST, SUITE 210,
PONTIAC, MI, 48342, US
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Page(s)
LINE COUNT: 1354
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An activatable material and articles incorporating the same is disclosed. The activatable material includes an isocyanate and an isocyanate reactive compound. The isocyanate is typically blocked such that the activatable material is non-reactive at temperatures below about 100° C. The activatable material is preferably used for sealing, baffling, reinforcing, adhering, sound attenuation, sound damping or the like of an article of manufacture such as an automotive vehicle.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 3 OF 33 USPATFULL on STN
ACCESSION NUMBER: 2003:325213 USPATFULL
TITLE: HIGH PERFORMANCE RIM ELASTOMERS AND A PROCESS FOR THEIR PRODUCTION
INVENTOR(S): Super, Michael S., Oakdale, PA, UNITED STATES
Steppan, David D., Gibsonia, PA, UNITED STATES
Slack, William E., Moundsville, WV, UNITED STATES
Potts, Bruce H., Beaver, PA, UNITED STATES
Hurley, Michael F., Pittsburgh, PA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20030229195	A1	20031211
	US 6765080	B2	20040720
APPLICATION INFO.:	US 2002-165297	A1	20020606 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	BAYER POLYMERS LLC, 100 BAYER ROAD, PITTSBURGH, PA, 15205		
NUMBER OF CLAIMS:	26		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1305		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to high performance RIM (reaction injection molded) poly(urethane)urea elastomers, and to a process for their production. These elastomers comprise the reaction product of an allophanate-modified diphenylmethane diisocyanate prepolymer having an NCO group content of about 5 to about 30%, with an isocyanate-reactive component comprising a high molecular weight amine-terminated polyether polyol, an aromatic diamine chain extender, and, optionally, a chain extender or crosslinker selected from the group consisting of aliphatic amine terminated polyether polyols and aliphatic hydroxyl terminated polyether polyols, optionally, in the presence of an internal mold release agent, a surfactant and a filler.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 4 OF 33 USPATFULL on STN

ACCESSION NUMBER: 2002:109128 USPATFULL

TITLE: Polyurethane compositions made from hydroxy-terminated polydiene polymers

INVENTOR(S): St. Clair, David John, 13831 Queensbury, Houston, TX, United States 77079

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6388010	B1	20020514
APPLICATION INFO.:	US 2000-491017		20000125 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1998-73666, filed on 6 May 1998, now patented, Pat. No. US 6060560		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-47551P	19970523 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Buttner, David J.	
NUMBER OF CLAIMS:	6	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 1 Drawing Page(s)	
LINE COUNT:	1852	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention provides a process for producing a polyurethane resin from a hydrogenated polydiene diol or polyol having a functional group equivalent weight of 750 to 10000, a reinforcing agent having a functional group equivalent weight of 30 to 200, and a polyisocyanate. In a preferred embodiment, the process comprises reacting at least one of a polydiene diol or a reinforcing diol or triol with the polyisocyanate at an NCO/functional group molar ratio of 0.4 to 0.7 or a functional group/NCO molar ratio of 0.25 to 0.55 to form a stable reaction product, adding to this reaction product an additional sufficient amount of the polyisocyanate and, as needed, one or both of the polydiene diol or the reinforcing agent to bring the NCO/functional group ratio up to from 0.9 to 1.1 and to achieve a polydiene diol content of 35 to 80%w (on solids basis) and a reinforcing agent content of 2 to 17%w (on solids basis), and reacting this final mixture to form a crosslinked polyurethane product. This process can also be carried out at an OH/NCO ratio of 0.9 to 1.1 using a blocked polyisocyanate wherein the intermediate reaction product is a stable polyurethane resin.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 5 OF 33 USPATFULL on STN

ACCESSION NUMBER: 2000:57854 USPATFULL

TITLE: Polyurethane compositions made from hydroxy-terminated polydiene polymers

INVENTOR(S): St. Clair, David John, Houston, TX, United States

PATENT ASSIGNEE(S): Shell Oil Company, Houston, TX, United States (U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION: US 6060560 20000509
APPLICATION INFO.: US 1998-73666 19980506 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-47551P	19970523 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Buttner, David	
LEGAL REPRESENTATIVE:	Haas, Donald F.	
NUMBER OF CLAIMS:	27	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 1 Drawing Page(s)	
LINE COUNT:	2129	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention provides a process for producing a polyurethane resin from a hydrogenated polydiene diol or polyol having a functional group equivalent weight of 750 to 10000, a reinforcing agent having a functional group equivalent weight of 30 to 200, and a polyisocyanate. In a preferred embodiment, the process comprises reacting at least one of a polydiene diol or a reinforcing diol or triol with the polyisocyanate at an NCO/functional group molar ratio of 0.4 to 0.7 or a functional group/NCO molar ratio of 0.25 to 0.55 to form a stable reaction product, adding to this reaction product an additional sufficient amount of the polyisocyanate and, as needed, one or both of the polydiene diol or the reinforcing agent to bring the NCO/functional group ratio up to from 0.9 to 1.1 and to achieve a polydiene diol content of 35 to 80% w (on solids basis) and a reinforcing agent content of 2 to 17% w (on solids basis), and reacting this final mixture to form a crosslinked polyurethane product. This process can also be carried out at an OH/NCO ratio of 0.9 to 1.1 using a blocked polyisocyanate wherein the intermediate reaction product is a stable polyurethane resin.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 6 OF 33 USPATFULL on STN

ACCESSION NUMBER: 1998:72697 USPATFULL
TITLE: Method of producing gaskets from polyurethane/urea compositions and gaskets produced therefrom
INVENTOR(S): Cageao, Ronald A., Beaver, PA, United States
Meltzer, A. Donald, Brecksville, OH, United States
Suddaby, Brian R., Pittsburgh, PA, United States
PATENT ASSIGNEE(S): Bayer Corporation, Pittsburgh, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5770674		19980623
APPLICATION INFO.:	US 1996-744037		19961105 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1995-484402, filed on 7 Jun 1995, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Sergent, Rabon		
LEGAL REPRESENTATIVE:	Gil, Joseph C., Brown, N. Denise		
NUMBER OF CLAIMS:	15		

EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 5 Drawing Figure(s); 4 Drawing Page(s)
LINE COUNT: 1633

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to a method of forming a gasket around a substrate from a novel polyurethane/urea composition via the RIM process. Window gaskets may be produced by this method. These novel polyurethane/urea compositions comprise the reaction product of a (cyclo)aliphatic polyisocyanate having a viscosity of less than about 25,000 mPa.multidot.s at 25° C. and a NCO functionality of 2.0 to 4.0 with an isocyanate-reactive component comprising b1) a relatively high molecular weight organic compound containing hydroxyl groups, amine groups, or mixtures thereof; and b2) a low molecular weight chain extender selected from the group consisting of diols, primary amines, secondary amines, aminoalcohols, and mixtures thereof; in the presence of a catalyst. The isocyanate and isocyanate-reactive components are selected such that the crosslinking density of the resultant polyurethane/urea composition is at least 0.3 moles/kg. It is also possible that the isocyanate-reactive component comprises b3) a low molecular weight chain terminator, and/or b4) a low molecular weight crosslinking agent. When either or both of these components are included in the isocyanate-reactive component, A, b1), b2), and/or b3) and/or b4) must be selected such that the crosslinking density of the resultant polyurethane/urea composition is at least 0.3 moles/kg.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 7 OF 33 USPATFULL on STN
ACCESSION NUMBER: 1998:7110 USPATFULL
TITLE: Polydiene diols in resilient polyurethane foams
INVENTOR(S): Hernandez, Hector, Houston, TX, United States
PATENT ASSIGNEE(S): Shell Oil Company, Houston, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5710192		19980120
APPLICATION INFO.:	US 1996-724940		19961002 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Cooney, Jr., John M.		
LEGAL REPRESENTATIVE:	Steinberg, Beverlee G.		
NUMBER OF CLAIMS:	20		
EXEMPLARY CLAIM:	1		
LINE COUNT:	477		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Polyurethane foams having high resilience, significantly improved humid aging, excellent tear strength, and light color are formed from a polydiene diol, preferably a hydrogenated polybutadiene diol, having a hydroxyl functionality from 1.6 to 2.0 and from an aromatic polyisocyanate having an isocyanate functionality of from 1.8 to 2.5. The polydiene diol is preferably blended with foaming agents prior to addition of the highly reactive polyisocyanate.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 8 OF 33 USPATFULL on STN

ACCESSION NUMBER: 93:69964 USPATFULL
TITLE: Cyclohexanedimethanoladipate based prepolymers and
reaction injection molded products made therefrom
INVENTOR(S): Mafoti, Robson, Pittsburgh, PA, United States
PATENT ASSIGNEE(S): Miles Inc., Pittsburgh, PA, United States (U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5239038		19930824
APPLICATION INFO.:	US 1989-442805		19891129 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Kight, III, John		
ASSISTANT EXAMINER:	Truong, Duc		
LEGAL REPRESENTATIVE:	Gil, Joseph C., Akorli, Godfried R.		
NUMBER OF CLAIMS:	7		
EXEMPLARY CLAIM:	1		
LINE COUNT:	600		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to a polyisocyanate prepolymer prepared by reacting an isocyanate based on 4,4-methylenebis(phenyl isocyanate) and a polyester polyol by reacting 1,4-cyclohexanedimethanol and adipic acid. The invention is also directed to a RIM process using such prepolymers.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 9 OF 33 USPATFULL on STN

ACCESSION NUMBER: 93:48632 USPATFULL
TITLE: Polyurea rim systems
INVENTOR(S): Slack, William E., Moundsville, WV, United States
Kratz, Mark R., Hannibal, OH, United States
PATENT ASSIGNEE(S): Miles Inc., Pittsburgh, PA, United States (U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5219973		19930615
APPLICATION INFO.:	US 1990-623469		19901207 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Kight, III, John		
ASSISTANT EXAMINER:	Truong, Duc		
LEGAL REPRESENTATIVE:	Gil, Joseph C., Brown, N. Denise		
NUMBER OF CLAIMS:	14		
EXEMPLARY CLAIM:	1		
LINE COUNT:	741		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to a RIM process and an isocyanate reactive composition for use therein. The isocyanate composition includes an amine terminated chain extender and an aromatic amine terminated polyether of the formula: ##STR1## wherein R is an n-valent group obtained by the removal of hydroxyl groups from an n-hydroxy group containing polyhydroxyl compound having a molecular weight of from about 300 to about 12,000,

R.sub.1 represents hydrogen or an inert substituent,

R.sub.2 represents hydrogen, an amine group, or an inert substituent,
and

n represents an integer from 2 to 4.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 10 OF 33 USPATFULL on STN

ACCESSION NUMBER: 92:78648 USPATFULL

TITLE: Polyurea rim systems having improved flow properties
and containing an organic cyclic carbonate

INVENTOR(S): Nodelman, Neil H., Pittsburgh, PA, United States

PATENT ASSIGNEE(S): Miles Inc., Pittsburgh, PA, United States (U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5149458		19920922
APPLICATION INFO.:	US 1991-686555		19910417 (7)
RELATED APPLN. INFO.:	Division of Ser. No. US 1990-546078, filed on 29 Jun 1990, now patented, Pat. No. US 5028635 which is a continuation-in-part of Ser. No. US 1990-463762, filed on 12 Jan 1990, now abandoned which is a continuation of Ser. No. US 1989-346186, filed on 4 May 1989, now abandoned which is a continuation-in-part of Ser. No. US 1988-212751, filed on 28 Jun 1988, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Bleutge, John C.		
ASSISTANT EXAMINER:	Krass, Frederick		
LEGAL REPRESENTATIVE:	Gil, Joseph C.		
NUMBER OF CLAIMS:	3		
EXEMPLARY CLAIM:	1		
LINE COUNT:	623		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to a RIM process and an
isocyanate-reactive mixture useful therein. The mixture comprises

i) a polyether having at least two isocyanate-reactive groups and a
molecular weight of from 1800 to 12,000 in which at least 50% of the
isocyanate-reactive groups are primary and/or secondary amine groups,

ii) an amine-terminated chain extender, and

iii) from 2 to 20 parts by weight per 100 parts by weight of components
b) and c) of propylene carbonate.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d his

(FILE 'HOME' ENTERED AT 08:06:06 ON 17 JUL 2008)

FILE '1MOBILITY, 2MOBILITY, ALUMINIUM, ANTE, APOLLIT, BABS, CAPLUS, CBNB,

CEABA-VTB, CERAB, CIN, CIVILENG, COMPENDEX, COPPERLIT, CORROSION, DKF, EMA, ENERGY, HEALSAFE, IFIPAT, INSPEC, INSPHYS, MATBUS, MDF, MECHENG, METADEX, MSDS-CCOHS, MSDS-OHS, PASCAL, ...' ENTERED AT 08:07:07 ON 17 JUL 2008

L1 4054 S FLEXIBLE (L) POLYURETHANE (L) DIOL (L) TRIOL
 L2 0 S L1 (L) HYDRODROFORMYLATION (L) RANEY (2W) NICKEL
 L3 8 S L1 (L) HYDROFORMYLATION (L) (RANEY (2W) NICKEL)
 L4 57 S L1 (L) (RANEY (2W) NICKEL)
 L5 49 S L4 NOT L3
 L6 45 S L5 AND RATIO
 L7 33 S L6 AND (ETHANOL OR METHANOL OR PROPANOL)

=> l1 and foam

L1 IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.
 For a list of commands available to you in the current file, enter
 "HELP COMMANDS" at an arrow prompt (=>).

=> s l1 and foam

L8 2442 L1 AND FOAM

=> s l8 and (raney (2w) nickel) and ratio

41 FILES SEARCHED...

L9 54 L8 AND (RANEY (2W) NICKEL) AND RATIO

=> s l9 and (methanol or ethanol or propanol)

L10 42 L9 AND (METHANOL OR ETHANOL OR PROPANOL)

=> s l10 not l3

L11 36 L10 NOT L3

=> d l11 1-10 ibib abs

L11 ANSWER 1 OF 36 USPATFULL on STN

ACCESSION NUMBER: 2007:201150 USPATFULL

TITLE: Bioplastics, monomers thereof, and processes for the
 preparation thereof from agricultural feedstocks

INVENTOR(S): Narine, Suresh, Alberta, CANADA
 Sporns, Peter, Alberta, CANADA
 Yue, Jin, Alberta, CANADA

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20070175793	A1	20070802
APPLICATION INFO.:	US 2007-649620	A1	20070104 (11)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2006-755770P	20060104 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	DANN, DORFMAN, HERRELL & SKILLMAN, 1601 MARKET STREET, SUITE 2400, PHILADELPHIA, PA, 19103-2307, US	
NUMBER OF CLAIMS:	40	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	87 Drawing Page(s)	
LINE COUNT:	3864	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates generally to polymers and monomers derived from agricultural feedstocks, and more particularly to methods for the production of monomers from renewable agricultural resources such as feedstocks, for example canola, flax and tallow, and polymers, in particular polyurethanes produced from monomers derived from such feedstocks. The present invention also relates to novel processes for the production of short-chain alcohols, as well as hydroxyl wax esters, from renewable feedstocks. An improved apparatus for carrying out ozonolysis reactions is also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 2 OF 36 USPATFULL on STN

ACCESSION NUMBER: 2005:264715 USPATFULL

TITLE: Activatable material and method of forming and using same

INVENTOR(S): Kassa, Abraham, Shelby Township, MI, UNITED STATES
Harthcock, Matthew, Oakland Township, MI, UNITED STATES
Sendijarevic, Aisa, Troy, MI, UNITED STATES
Sendijarevic, Vahid, Troy, MI, UNITED STATES

PATENT ASSIGNEE(S): L&L Products, Inc., Romeo, MI, UNITED STATES (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20050230027	A1	20051020
APPLICATION INFO.:	US 2005-89712	A1	20050325 (11)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2004-622442P	20041027 (60)
	US 2004-562663P	20040415 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	DOBRUSIN & THENNISCH PC, 29 W LAWRENCE ST, SUITE 210, PONTIAC, MI, 48342, US	
NUMBER OF CLAIMS:	20	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	4 Drawing Page(s)	
LINE COUNT:	1354	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An activatable material and articles incorporating the same is disclosed. The activatable material includes an isocyanate and an isocyanate reactive compound. The isocyanate is typically blocked such that the activatable material is non-reactive at temperatures below about 100° C. The activatable material is preferably used for sealing, baffling, reinforcing, adhering, sound attenuation, sound damping or the like of an article of manufacture such as an automotive vehicle.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 3 OF 36 USPATFULL on STN

ACCESSION NUMBER: 2003:325213 USPATFULL

TITLE: HIGH PERFORMANCE RIM ELASTOMERS AND A PROCESS FOR THEIR PRODUCTION

INVENTOR(S): Super, Michael S., Oakdale, PA, UNITED STATES
 Steppan, David D., Gibsonia, PA, UNITED STATES
 Slack, William E., Moundsville, WV, UNITED STATES
 Potts, Bruce H., Beaver, PA, UNITED STATES
 Hurley, Michael F., Pittsburgh, PA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20030229195	A1	20031211
	US 6765080	B2	20040720
APPLICATION INFO.:	US 2002-165297	A1	20020606 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	BAYER POLYMERS LLC, 100 BAYER ROAD, PITTSBURGH, PA, 15205		
NUMBER OF CLAIMS:	26		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1305		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to high performance RIM (reaction injection molded) poly(urethane)urea elastomers, and to a process for their production. These elastomers comprise the reaction product of an allophanate-modified diphenylmethane diisocyanate prepolymer having an NCO group content of about 5 to about 30%, with an isocyanate-reactive component comprising a high molecular weight amine-terminated polyether polyol, an aromatic diamine chain extender, and, optionally, a chain extender or crosslinker selected from the group consisting of aliphatic amine terminated polyether polyols and aliphatic hydroxyl terminated polyether polyols, optionally, in the presence of an internal mold release agent, a surfactant and a filler.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 4 OF 36 USPATFULL on STN

ACCESSION NUMBER: 2002:109128 USPATFULL
 TITLE: Polyurethane compositions made from hydroxy-terminated polydiene polymers
 INVENTOR(S): St. Clair, David John, 13831 Queensbury, Houston, TX, United States 77079

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6388010	B1	20020514
APPLICATION INFO.:	US 2000-491017		20000125 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1998-73666, filed on 6 May 1998, now patented, Pat. No. US 6060560		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-47551P	19970523 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Buttner, David J.	
NUMBER OF CLAIMS:	6	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 1 Drawing Page(s)	
LINE COUNT:	1852	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention provides a process for producing a polyurethane resin from a hydrogenated polydiene diol or polyol having a functional group equivalent weight of 750 to 10000, a reinforcing agent having a functional group equivalent weight of 30 to 200, and a polyisocyanate. In a preferred embodiment, the process comprises reacting at least one of a polydiene diol or a reinforcing diol or triol with the polyisocyanate at an NCO/functional group molar ratio of 0.4 to 0.7 or a functional group/NCO molar ratio of 0.25 to 0.55 to form a stable reaction product, adding to this reaction product an additional sufficient amount of the polyisocyanate and, as needed, one or both of the polydiene diol or the reinforcing agent to bring the NCO/functional group ratio up to from 0.9 to 1.1 and to achieve a polydiene diol content of 35 to 80%w (on solids basis) and a reinforcing agent content of 2 to 17%w (on solids basis), and reacting this final mixture to form a crosslinked polyurethane product. This process can also be carried out at an OH/NCO ratio of 0.9 to 1.1 using a blocked polyisocyanate wherein the intermediate reaction product is a stable polyurethane resin.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 5 OF 36 USPTAFULL on STN

ACCESSION NUMBER: 2000:57854 USPTAFULL

TITLE: Polyurethane compositions made from hydroxy-terminated polydiene polymers

INVENTOR(S): St. Clair, David John, Houston, TX, United States

PATENT ASSIGNEE(S): Shell Oil Company, Houston, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6060560		20000509
APPLICATION INFO.:	US 1998-73666		19980506 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-47551P	19970523 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Buttner, David	
LEGAL REPRESENTATIVE:	Haas, Donald F.	
NUMBER OF CLAIMS:	27	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 1 Drawing Page(s)	
LINE COUNT:	2129	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention provides a process for producing a polyurethane resin from a hydrogenated polydiene diol or polyol having a functional group equivalent weight of 750 to 10000, a reinforcing agent having a functional group equivalent weight of 30 to 200, and a polyisocyanate. In a preferred embodiment, the process comprises reacting at least one of a polydiene diol or a reinforcing diol or triol with the polyisocyanate at an NCO/functional group molar ratio of 0.4 to 0.7 or a functional group/NCO molar ratio of 0.25 to 0.55 to form a stable reaction product, adding to this reaction product an additional sufficient amount of the polyisocyanate and, as needed, one

or both of the polydiene diol or the reinforcing agent to bring the NCO/functional group ratio up to from 0.9 to 1.1 and to achieve a polydiene diol content of 35 to 80% w (on solids basis) and a reinforcing agent content of 2 to 17% w (on solids basis), and reacting this final mixture to form a crosslinked polyurethane product. This process can also be carried out at an OH/NCO ratio of 0.9 to 1.1 using a blocked polyisocyanate wherein the intermediate reaction product is a stable polyurethane resin.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 6 OF 36 USPATFULL on STN

ACCESSION NUMBER: 1998:72697 USPATFULL

TITLE: Method of producing gaskets from polyurethane/urea compositions and gaskets produced therefrom

INVENTOR(S): Cageao, Ronald A., Beaver, PA, United States
Meltzer, A. Donald, Brecksville, OH, United States
Suddaby, Brian R., Pittsburgh, PA, United States

PATENT ASSIGNEE(S): Bayer Corporation, Pittsburgh, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5770674		19980623
APPLICATION INFO.:	US 1996-744037		19961105 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1995-484402, filed on 7 Jun 1995, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Sergent, Rabon		
LEGAL REPRESENTATIVE:	Gil, Joseph C., Brown, N. Denise		
NUMBER OF CLAIMS:	15		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	5 Drawing Figure(s); 4 Drawing Page(s)		
LINE COUNT:	1633		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to a method of forming a gasket around a substrate from a novel polyurethane/urea composition via the RIM process. Window gaskets may be produced by this method. These novel polyurethane/urea compositions comprise the reaction product of a (cyclo)aliphatic polyisocyanate having a viscosity of less than about 25,000 mPa.multidot.s at 25° C. and a NCO functionality of 2.0 to 4.0 with an isocyanate-reactive component comprising b1) a relatively high molecular weight organic compound containing hydroxyl groups, amine groups, or mixtures thereof; and b2) a low molecular weight chain extender selected from the group consisting of diols, primary amines, secondary amines, aminoalcohols, and mixtures thereof; in the presence of a catalyst. The isocyanate and isocyanate-reactive components are selected such that the crosslinking density of the resultant polyurethane/urea composition is at least 0.3 moles/kg. It is also possible that the isocyanate-reactive component comprises b3) a low molecular weight chain terminator, and/or b4) a low molecular weight crosslinking agent. When either or both of these components are included in the isocyanate-reactive component, A, b1), b2), and/or b3) and/or b4) must be selected such that the crosslinking density of the resultant polyurethane/urea composition is at least 0.3 moles/kg.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 7 OF 36 USPATFULL on STN

ACCESSION NUMBER: 1998:7110 USPATFULL
TITLE: Polydiene diols in resilient polyurethane foams
INVENTOR(S): Hernandez, Hector, Houston, TX, United States
PATENT ASSIGNEE(S): Shell Oil Company, Houston, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5710192		19980120
APPLICATION INFO.:	US 1996-724940		19961002 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Cooney, Jr., John M.		
LEGAL REPRESENTATIVE:	Steinberg, Beverlee G.		
NUMBER OF CLAIMS:	20		
EXEMPLARY CLAIM:	1		
LINE COUNT:	477		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Polyurethane foams having high resilience, significantly improved humid aging, excellent tear strength, and light color are formed from a polydiene diol, preferably a hydrogenated polybutadiene diol, having a hydroxyl functionality from 1.6 to 2.0 and from an aromatic polyisocyanate having an isocyanate functionality of from 1.8 to 2.5. The polydiene diol is preferably blended with foaming agents prior to addition of the highly reactive polyisocyanate.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 8 OF 36 USPATFULL on STN

ACCESSION NUMBER: 96:87650 USPATFULL
TITLE: Hydroxy-functional triamine catalyst compositions for the production of polyurethanes
INVENTOR(S): Klotz, Herbert C., Allentown, PA, United States
Lassila, Kevin R., Allentown, PA, United States
Listemann, Mark L., Whitehall, PA, United States
Minnich, Kristen E., Allentown, PA, United States
Savoca, Ann C. L., Bernville, PA, United States
PATENT ASSIGNEE(S): Air Products and Chemicals, Inc., Allentown, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5559161		19960924
APPLICATION INFO.:	US 1994-198925		19940218 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Seidleck, James J.		
ASSISTANT EXAMINER:	Truong, Duc		
LEGAL REPRESENTATIVE:	Leach, Michael, Marsh, William F.		
NUMBER OF CLAIMS:	22		
EXEMPLARY CLAIM:	1		
LINE COUNT:	598		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for preparing a polyurethane foam which comprises

reacting an organic polyisocyanate and a polyol in the presence of a blowing agent, a cell stabilizer and a catalyst composition consisting essentially of a compound of structure I ##STR1## wherein R is hydrogen, a C.sub.1 -C.sub.4 alkyl, C.sub.6 -C.sub.8 aryl, or C.sub.7 -C.sub.9 aralkyl group; and

n is 1 to 8

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 9 OF 36 USPATFULL on STN

ACCESSION NUMBER: 96:36599 USPATFULL

TITLE: Hydroxy and amino functional pyrrolizidine catalyst compositions for the production of polyurethanes

INVENTOR(S): Carr, Richard V. C., Allentown, PA, United States
Lassila, Kevin R., Allentown, PA, United States
Listemann, Mark L., Whitehall, PA, United States
Mercando, Lisa A., Pennsburg, PA, United States
Minnich, Kristen E., Allentown, PA, United States
Savoca, Ann C. L., Bernville, PA, United States
Wressell, Amy L., Allentown, PA, United States

PATENT ASSIGNEE(S): Air Products and Chemicals, Inc., Allentown, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5512603		19960430
APPLICATION INFO.:	US 1994-199396		19940222 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Seidleck, James J.		
ASSISTANT EXAMINER:	Sergent, Rabon		
LEGAL REPRESENTATIVE:	Leach, Michael, Marsh, William F.		
NUMBER OF CLAIMS:	20		
EXEMPLARY CLAIM:	1		
LINE COUNT:	500		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for preparing a polyurethane foam which comprises reacting an organic polyisocyanate and a polyol in the presence of a blowing agent, cell stabilizer and a catalyst composition consisting essentially of a pyrrolizidine of the formula: ##STR1## where R.sub.1 and R.sub.2 independently are --H, --OH, ##STR2## or --NR.sub.4 R.sub.5, R.sub.3 is hydrogen, a C.sub.1 -C.sub.12 alkyl, C.sub.5 -C.sub.6 cycloalkyl, C.sub.6 -C.sub.10 aryl, or C.sub.7 -C.sub.11 arylalkyl group, and

R.sub.4 and R.sub.5 independently represent H, a C.sub.1 -C.sub.12 alkyl group, C.sub.5 -C.sub.10 cycloalkyl, C.sub.6 -C.sub.10 aryl, or C.sub.7 -C.sub.11 arylalkyl group, provided that at least R.sub.1 or R.sub.2 is not hydrogen.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 10 OF 36 USPATFULL on STN

ACCESSION NUMBER: 94:99905 USPATFULL

TITLE: Preparation of compact or cellular elastomers containing urethane and urea groups, and moldings

INVENTOR(S): produced therefrom
Hinz, Werner, Frankenthal, Germany, Federal Republic of
Maletzko, Christian, Mannheim, Germany, Federal
Republic of
Becker, Johannes, Ludwigshafen, Germany, Federal
Republic of
PATENT ASSIGNEE(S): Matzke, Guenter, Ketsch, Germany, Federal Republic of
BASF Aktiengesellschaft, Ludwigshafen, Germany, Federal
Republic of (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5364852		19941115
APPLICATION INFO.:	US 1993-53759		19930429 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1992-4218791	19920606
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Seidleck, James J.	
ASSISTANT EXAMINER:	Critharis, Mary	
LEGAL REPRESENTATIVE:	Golota, Mary E.	
NUMBER OF CLAIMS:	11	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1043	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compact or cellular elastomers containing urethane and urea groups are prepared by reacting

a) at least one organic and/or modified organic polyisocyanate

b) at least one N-propoxylated polyoxyalkylene-polyamine containing at least 50% of secondary amino groups or a mixture of said N-propoxylated polyoxyalkylene-polyamines and polyoxyalkylene-polyamines containing 2 to 4 primary amino groups and having a molecular weight of from 1000 to 8000,

c) at least one alkyl-substituted aromatic polyamine having a molecular weight up to 500, in the presence or absence of

d) catalysts and, if desired,

e) blowing agents,

f) auxiliaries and/or

g) additives.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d his

(FILE 'HOME' ENTERED AT 08:06:06 ON 17 JUL 2008)

FILE '1MOBILITY, 2MOBILITY, ALUMINIUM, ANTE, APOLLIT, BABS, CAPLUS, CBNB,

CEABA-VTB, CERAB, CIN, CIVILENG, COMPENDEX, COPPERLIT, CORROSION, DKF, EMA, ENERGY, HEALSAFE, IFIPAT, INSPEC, INSPHYS, MATBUS, MDF, MECHENG, METADEX, MSDS-CCOHS, MSDS-OHS, PASCAL, ...' ENTERED AT 08:07:07 ON 17 JUL 2008

L1 4054 S FLEXIBLE (L) POLYURETHANE (L) DIOL (L) TRIOL
 L2 0 S L1 (L) HYDRODROFORMYLATION (L) RANEY (2W) NICKEL
 L3 8 S L1 (L) HYDROFORMYLATION (L) (RANEY (2W) NICKEL)
 L4 57 S L1 (L) (RANEY (2W) NICKEL)
 L5 49 S L4 NOT L3
 L6 45 S L5 AND RATIO
 L7 33 S L6 AND (ETHANOL OR METHANOL OR PROPANOL)
 L8 2442 S L1 AND FOAM
 L9 54 S L8 AND (RANEY (2W) NICKEL) AND RATIO
 L10 42 S L9 AND (METHANOL OR ETHANOL OR PROPANOL)
 L11 36 S L10 NOT L3

=> s flexible (L) polyurethane (L) foam (L) diol (L) triol (L) mixture
 28 FILES SEARCHED...

L12 2320 FLEXIBLE (L) POLYURETHANE (L) FOAM (L) DIOL (L) TRIOL (L) MIXTUR
 E

=> s l12 and (methanol or ethanol or propanol) and (raney (2w) nickel)
 41 FILES SEARCHED...

L13 43 L12 AND (METHANOL OR ETHANOL OR PROPANOL) AND (RANEY (2W) NICKE
 L)

=> d l13 1-10 ibib abs

L13 ANSWER 1 OF 43 USPATFULL on STN

ACCESSION NUMBER: 2007:201150 USPATFULL

TITLE: Bioplastics, monomers thereof, and processes for the
 preparation thereof from agricultural feedstocks

INVENTOR(S): Narine, Suresh, Alberta, CANADA
 Sporns, Peter, Alberta, CANADA
 Yue, Jin, Alberta, CANADA

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20070175793	A1	20070802
APPLICATION INFO.:	US 2007-649620	A1	20070104 (11)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2006-755770P	20060104 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	DANN, DORFMAN, HERRELL & SKILLMAN, 1601 MARKET STREET, SUITE 2400, PHILADELPHIA, PA, 19103-2307, US	
NUMBER OF CLAIMS:	40	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	87 Drawing Page(s)	
LINE COUNT:	3864	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates generally to polymers and monomers derived from agricultural feedstocks, and more particularly to methods for the production of monomers from renewable agricultural resources such as feedstocks, for example canola, flax and tallow, and polymers, in

particular polyurethanes produced from monomers derived from such feedstocks. The present invention also relates to novel processes for the production of short-chain alcohols, as well as hydroxyl wax esters, from renewable feedstocks. An improved apparatus for carrying out ozonolysis reactions is also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 2 OF 43 USPATFULL on STN

ACCESSION NUMBER: 2006:227438 USPATFULL

TITLE: Aldehyde and alcohol compositions derived from seed oils

INVENTOR(S): Lysenko, Zenon, Midland, MI, UNITED STATES
 Morrison, Donald L., Fort Collins, CO, UNITED STATES
 Babb, David A., Lake Jackson, TX, UNITED STATES
 Bunning, Donald L., South Charleston, WV, UNITED STATES
 Derstine, Christopher W., Winfield, WV, UNITED STATES
 Gilchrist, James H., Dunbar, WV, UNITED STATES
 Jouett, H. Ray, Houston, TX, UNITED STATES
 Kanel, Jeffrey S., Hurricane, WV, UNITED STATES
 Olson, Kurt D., Cross Lanes, WV, UNITED STATES
 Peng, Wei-Jun, Hurricane, WV, UNITED STATES
 Philips, Joe D., Lake Jackson, TX, UNITED STATES
 Roesch, Brian M., Cross Lanes, WV, UNITED STATES
 Sanders, Aaron W., Missouri City, TX, UNITED STATES
 Schrock, Alan K., Lake Jackson, TX, UNITED STATES
 Thomas, Pulikkottil J., Midland, MI, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20060193802	A1	20060831
APPLICATION INFO.:	US 2004-551854	A1	20040422 (10)
	WO 2004-US12246		20040422
			20050930 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	US 2003-465663P	20030425 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	THE DOW CHEMICAL COMPANY, INTELLECTUAL PROPERTY SECTION, P. O. BOX 1967, MIDLAND, MI, 48641-1967, US	
NUMBER OF CLAIMS:	34	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Page(s)	
LINE COUNT:	1284	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An aldehyde composition derived by hydroformylation of a transesterified seed oil and containing a mixture of formyl-substituted fatty acids or fatty acid esters having the following composition by weight: greater than about 10 to less than about 95 percent monoformyl, greater than about 1 to less than about 65 percent diformyl, and greater than about 0.1 to less than about 10 percent triformyl-substituted fatty acids or fatty acid esters, and having a diformyl to triformyl weight ratio of greater than about 5/1; preferably, greater than about 3 to less than about 20 percent saturates; and preferably, greater than about 1 to less than about 20 percent unsaturates. An alcohol composition

derived by hydrogenation of the aforementioned aldehyde composition, containing a mixture of hydroxymethyl-substituted fatty acids or fatty acid esters having the following composition by weight: greater than about 10 to less than about 95 percent monoalcohol {mono(hydroxymethyl)}, greater than about 1 to less than about 65 percent diol {di(hydroxymethyl)}, greater than about 0.1 to less than about 10 percent triol, tri(hydroxymethyl)-substituted fatty acids or fatty acid esters; preferably greater than about 3 to less than about 35 percent saturates; and preferably, less than about 10 percent unsaturates. The alcohol composition can be converted into an oligomeric polyol for use in the manufacture of polyurethane slab stock flexible foams.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 3 OF 43 USPATFULL on STN

ACCESSION NUMBER: 2005:264715 USPATFULL

TITLE: Activatable material and method of forming and using same

INVENTOR(S): Kassa, Abraham, Shelby Township, MI, UNITED STATES
Harthcock, Matthew, Oakland Township, MI, UNITED STATES
Sendijarevic, Aisa, Troy, MI, UNITED STATES
Sendijarevic, Vahid, Troy, MI, UNITED STATES

PATENT ASSIGNEE(S): L&L Products, Inc., Romeo, MI, UNITED STATES (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20050230027	A1	20051020
APPLICATION INFO.:	US 2005-89712	A1	20050325 (11)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2004-622442P	20041027 (60)
	US 2004-562663P	20040415 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	DOBRUSIN & THENNISCH PC, 29 W LAWRENCE ST, SUITE 210, PONTIAC, MI, 48342, US	
NUMBER OF CLAIMS:	20	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	4 Drawing Page(s)	
LINE COUNT:	1354	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An activatable material and articles incorporating the same is disclosed. The activatable material includes an isocyanate and an isocyanate reactive compound. The isocyanate is typically blocked such that the activatable material is non-reactive at temperatures below about 100° C. The activatable material is preferably used for sealing, baffling, reinforcing, adhering, sound attenuation, sound damping or the like of an article of manufacture such as an automotive vehicle.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 4 OF 43 USPATFULL on STN

ACCESSION NUMBER: 2003:325213 USPATFULL

TITLE: HIGH PERFORMANCE RIM ELASTOMERS AND A PROCESS FOR THEIR PRODUCTION

INVENTOR(S): Super, Michael S., Oakdale, PA, UNITED STATES
 Steppan, David D., Gibsonia, PA, UNITED STATES
 Slack, William E., Moundsville, WV, UNITED STATES
 Potts, Bruce H., Beaver, PA, UNITED STATES
 Hurley, Michael F., Pittsburgh, PA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20030229195	A1	20031211
	US 6765080	B2	20040720
APPLICATION INFO.:	US 2002-165297	A1	20020606 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	BAYER POLYMERS LLC, 100 BAYER ROAD, PITTSBURGH, PA, 15205		
NUMBER OF CLAIMS:	26		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1305		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to high performance RIM (reaction injection molded) poly(urethane)urea elastomers, and to a process for their production. These elastomers comprise the reaction product of an allophanate-modified diphenylmethane diisocyanate prepolymer having an NCO group content of about 5 to about 30%, with an isocyanate-reactive component comprising a high molecular weight amine-terminated polyether polyol, an aromatic diamine chain extender, and, optionally, a chain extender or crosslinker selected from the group consisting of aliphatic amine terminated polyether polyols and aliphatic hydroxyl terminated polyether polyols, optionally, in the presence of an internal mold release agent, a surfactant and a filler.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 5 OF 43 USPATFULL on STN

ACCESSION NUMBER: 2002:109128 USPATFULL

TITLE: Polyurethane compositions made from hydroxy-terminated polydiene polymers

INVENTOR(S): St. Clair, David John, 13831 Queensbury, Houston, TX, United States 77079

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6388010	B1	20020514
APPLICATION INFO.:	US 2000-491017		20000125 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1998-73666, filed on 6 May 1998, now patented, Pat. No. US 6060560		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-47551P	19970523 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Buttner, David J.	
NUMBER OF CLAIMS:	6	
EXEMPLARY CLAIM:	1	

NUMBER OF DRAWINGS: 1 Drawing Figure(s); 1 Drawing Page(s)

LINE COUNT: 1852

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention provides a process for producing a polyurethane resin from a hydrogenated polydiene diol or polyol having a functional group equivalent weight of 750 to 10000, a reinforcing agent having a functional group equivalent weight of 30 to 200, and a polyisocyanate. In a preferred embodiment, the process comprises reacting at least one of a polydiene diol or a reinforcing diol or triol with the polyisocyanate at an NCO/functional group molar ratio of 0.4 to 0.7 or a functional group/NCO molar ratio of 0.25 to 0.55 to form a stable reaction product, adding to this reaction product an additional sufficient amount of the polyisocyanate and, as needed, one or both of the polydiene diol or the reinforcing agent to bring the NCO/functional group ratio up to from 0.9 to 1.1 and to achieve a polydiene diol content of 35 to 80%w (on solids basis) and a reinforcing agent content of 2 to 17%w (on solids basis), and reacting this final mixture to form a crosslinked polyurethane product. This process can also be carried out at an OH/NCO ratio of 0.9 to 1.1 using a blocked polyisocyanate wherein the intermediate reaction product is a stable polyurethane resin.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 6 OF 43 USPATFULL on STN

ACCESSION NUMBER: 2000:57854 USPATFULL

TITLE: Polyurethane compositions made from hydroxy-terminated polydiene polymers

INVENTOR(S): St. Clair, David John, Houston, TX, United States

PATENT ASSIGNEE(S): Shell Oil Company, Houston, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6060560		20000509
APPLICATION INFO.:	US 1998-73666		19980506 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-47551P	19970523 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Buttner, David	
LEGAL REPRESENTATIVE:	Haas, Donald F.	
NUMBER OF CLAIMS:	27	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 1 Drawing Page(s)	
LINE COUNT:	2129	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention provides a process for producing a polyurethane resin from a hydrogenated polydiene diol or polyol having a functional group equivalent weight of 750 to 10000, a reinforcing agent having a functional group equivalent weight of 30 to 200, and a polyisocyanate. In a preferred embodiment, the process comprises reacting at least one of a polydiene diol or a reinforcing diol or triol with the polyisocyanate at an NCO/functional group molar ratio of 0.4 to 0.7 or a functional group/NCO molar ratio of 0.25 to 0.55 to form a stable reaction product, adding to this reaction product an additional

sufficient amount of the polyisocyanate and, as needed, one or both of the polydiene diol or the reinforcing agent to bring the NCO/functional group ratio up to from 0.9 to 1.1 and to achieve a polydiene diol content of 35 to 80% w (on solids basis) and a reinforcing agent content of 2 to 17% w (on solids basis), and reacting this final mixture to form a crosslinked polyurethane product. This process can also be carried out at an OH/NCO ratio of 0.9 to 1.1 using a blocked polyisocyanate wherein the intermediate reaction product is a stable polyurethane resin.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 7 OF 43 USPATFULL on STN

ACCESSION NUMBER: 1999:78786 USPATFULL
 TITLE: Weatherable resilient polyurethane foams
 INVENTOR(S): St. Clair, David John, Houston, TX, United States
 Hernandez, Hector, Houston, TX, United States
 PATENT ASSIGNEE(S): Shell Oil Company, Houston, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5922781		19990713
APPLICATION INFO.:	US 1998-81559		19980519 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-47520P	19970523 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Foelak, Morton	
LEGAL REPRESENTATIVE:	Steinberg, Beverlee G.	
NUMBER OF CLAIMS:	14	
EXEMPLARY CLAIM:	1	
LINE COUNT:	499	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB There is provided a weatherable polyurethane foam produced from a polydiene diol having a number average molecular weight from 1,000 to 20,000 and a functionality of from 1.6 to 2, an aliphatic or cycloaliphatic polyisocyanate, and a stabilizer. The polydiene diol foams have excellent stability under sunlight exposure.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 8 OF 43 USPATFULL on STN

ACCESSION NUMBER: 1998:72697 USPATFULL
 TITLE: Method of producing gaskets from polyurethane/urea compositions and gaskets produced therefrom
 INVENTOR(S): Cageao, Ronald A., Beaver, PA, United States
 Meltzer, A. Donald, Brecksville, OH, United States
 Suddaby, Brian R., Pittsburgh, PA, United States
 PATENT ASSIGNEE(S): Bayer Corporation, Pittsburgh, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5770674		19980623
APPLICATION INFO.:	US 1996-744037		19961105 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1995-484402, filed
on 7 Jun 1995, now abandoned

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted

PRIMARY EXAMINER: Sergeant, Rabon

LEGAL REPRESENTATIVE: Gil, Joseph C., Brown, N. Denise

NUMBER OF CLAIMS: 15

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 5 Drawing Figure(s); 4 Drawing Page(s)

LINE COUNT: 1633

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to a method of forming a gasket around a substrate from a novel polyurethane/urea composition via the RIM process. Window gaskets may be produced by this method. These novel polyurethane/urea compositions comprise the reaction product of a (cyclo)aliphatic polyisocyanate having a viscosity of less than about 25,000 mPa.multidot.s at 25° C. and a NCO functionality of 2.0 to 4.0 with an isocyanate-reactive component comprising b1) a relatively high molecular weight organic compound containing hydroxyl groups, amine groups, or mixtures thereof; and b2) a low molecular weight chain extender selected from the group consisting of diols, primary amines, secondary amines, aminoalcohols, and mixtures thereof; in the presence of a catalyst. The isocyanate and isocyanate-reactive components are selected such that the crosslinking density of the resultant polyurethane/urea composition is at least 0.3 moles/kg. It is also possible that the isocyanate-reactive component comprises b3) a low molecular weight chain terminator, and/or b4) a low molecular weight crosslinking agent. When either or both of these components are included in the isocyanate-reactive component, A, b1), b2), and/or b3) and/or b4) must be selected such that the crosslinking density of the resultant polyurethane/urea composition is at least 0.3 moles/kg.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 9 OF 43 USPATFULL on STN

ACCESSION NUMBER: 1998:7110 USPATFULL

TITLE: Polydiene diols in resilient polyurethane foams

INVENTOR(S): Hernandez, Hector, Houston, TX, United States

PATENT ASSIGNEE(S): Shell Oil Company, Houston, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5710192		19980120
APPLICATION INFO.:	US 1996-724940		19961002 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Cooney, Jr., John M.		
LEGAL REPRESENTATIVE:	Steinberg, Beverlee G.		
NUMBER OF CLAIMS:	20		
EXEMPLARY CLAIM:	1		
LINE COUNT:	477		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Polyurethane foams having high resilience, significantly improved humid aging, excellent tear strength, and light color are formed from a polydiene diol, preferably a hydrogenated polybutadiene diol, having a hydroxyl functionality from 1.6 to 2.0 and from an aromatic

polyisocyanate having an isocyanate functionality of from 1.8 to 2.5.
The polydiene diol is preferably blended with foaming agents prior to
addition of the highly reactive polyisocyanate.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 10 OF 43 USPATFULL on STN

ACCESSION NUMBER: 97:45055 USPATFULL

TITLE: Hydroxy-functional triamine catalyst compositions for
polyurethane production

INVENTOR(S): Van Court Carr, Richard, Allentown, PA, United States
Listemann, Mark L., Whitehall, PA, United States
Savoca, Ann C. L., Bernville, PA, United States

PATENT ASSIGNEE(S): Air Products and Chemicals, Inc., Allentown, PA, United
States (U.S. corporation)

	NUMBER	KIND	DATE
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PATENT INFORMATION:	US 5633293		19970527
APPLICATION INFO.:	US 1995-565518		19951130 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Gorr, Rachel		
LEGAL REPRESENTATIVE:	Leach, Michael, Marsh, William F.		
NUMBER OF CLAIMS:	21		
EXEMPLARY CLAIM:	1		
LINE COUNT:	641		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for preparing a polyurethane foam which comprises reacting an
organic polyisocyanate and a polyol in the presence of a blowing agent,
a cell stabilizer and a catalyst composition consisting essentially of
0-50 mole % compound I and 50-100 mole % compound II: ##STR1## wherein R
is hydrogen, a C.sub.1 -C.sub.4 alkyl, C.sub.6 -C.sub.8 aryl, or C.sub.7
-C.sub.9 aralkyl group; and

n is 2 to 8.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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(FILE 'HOME' ENTERED AT 08:06:06 ON 17 JUL 2008)

FILE '1MOBILITY, 2MOBILITY, ALUMINIUM, ANTE, APOLLIT, BABS, CAPLUS, CBNB,
CEABA-VTB, CERAB, CIN, CIVILENG, COMPENDEX, COPPERLIT, CORROSION, DKF,
EMA, ENERGY, HEALSAFE, IFIPAT, INSPEC, INSPHYS, MATBUS, MDF, MECHENG,
METADEX, MSDS-CCOHS, MSDS-OHS, PASCAL, ...' ENTERED AT 08:07:07 ON 17 JUL
2008

L1 4054 S FLEXIBLE (L) POLYURETHANE (L) DIOL (L) TRIOL
L2 0 S L1 (L) HYDROFORMYLATION (L) RANEY (2W) NICKEL
L3 8 S L1 (L) HYDROFORMYLATION (L) (RANEY (2W) NICKEL)
L4 57 S L1 (L) (RANEY (2W) NICKEL)
L5 49 S L4 NOT L3
L6 45 S L5 AND RATIO
L7 33 S L6 AND (ETHANOL OR METHANOL OR PROPANOL)
L8 2442 S L1 AND FOAM

L9 54 S L8 AND (RANEY (2W) NICKEL) AND RATIO
 L10 42 S L9 AND (METHANOL OR ETHANOL OR PROPANOL)
 L11 36 S L10 NOT L3
 L12 2320 S FLEXIBLE (L) POLYURETHANE (L) FOAM (L) DIOL (L) TRIOL (L) MIX
 L13 43 S L12 AND (METHANOL OR ETHANOL OR PROPANOL) AND (RANEY (2W) NI

=> d l13 11-20 ibib abs

L13 ANSWER 11 OF 43 USPATFULL on STN

ACCESSION NUMBER: 96:87650 USPATFULL

TITLE: Hydroxy-functional triamine catalyst compositions for the production of polyurethanes

INVENTOR(S): Klotz, Herbert C., Allentown, PA, United States
 Lassila, Kevin R., Allentown, PA, United States
 Listemann, Mark L., Whitehall, PA, United States
 Minnich, Kristen E., Allentown, PA, United States
 Savoca, Ann C. L., Bernville, PA, United States

PATENT ASSIGNEE(S): Air Products and Chemicals, Inc., Allentown, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5559161		19960924
APPLICATION INFO.:	US 1994-198925		19940218 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Seidleck, James J.		
ASSISTANT EXAMINER:	Truong, Duc		
LEGAL REPRESENTATIVE:	Leach, Michael, Marsh, William F.		
NUMBER OF CLAIMS:	22		
EXEMPLARY CLAIM:	1		
LINE COUNT:	598		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for preparing a polyurethane foam which comprises reacting an organic polyisocyanate and a polyol in the presence of a blowing agent, a cell stabilizer and a catalyst composition consisting essentially of a compound of structure I ##STR1## wherein R is hydrogen, a C.sub.1-C.sub.4 alkyl, C.sub.6-C.sub.8 aryl, or C.sub.7-C.sub.9 aralkyl group; and

n is 1 to 8

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 12 OF 43 USPATFULL on STN

ACCESSION NUMBER: 96:36599 USPATFULL

TITLE: Hydroxy and amino functional pyrrolizidine catalyst compositions for the production of polyurethanes

INVENTOR(S): Carr, Richard V. C., Allentown, PA, United States
 Lassila, Kevin R., Allentown, PA, United States
 Listemann, Mark L., Whitehall, PA, United States
 Mercado, Lisa A., Pennsburg, PA, United States
 Minnich, Kristen E., Allentown, PA, United States
 Savoca, Ann C. L., Bernville, PA, United States
 Wressell, Amy L., Allentown, PA, United States

PATENT ASSIGNEE(S): Air Products and Chemicals, Inc., Allentown, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5512603		19960430
APPLICATION INFO.:	US 1994-199396		19940222 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Seidleck, James J.		
ASSISTANT EXAMINER:	Sergent, Rabon		
LEGAL REPRESENTATIVE:	Leach, Michael, Marsh, William F.		
NUMBER OF CLAIMS:	20		
EXEMPLARY CLAIM:	1		
LINE COUNT:	500		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for preparing a polyurethane foam which comprises reacting an organic polyisocyanate and a polyol in the presence of a blowing agent, cell stabilizer and a catalyst composition consisting essentially of a pyrrolizidine of the formula: ##STR1## where R.sub.1 and R.sub.2 independently are --H, --OH, ##STR2## or --NR.sub.4 R.sub.5, R.sub.3 is hydrogen, a C.sub.1 -C.sub.12 alkyl, C.sub.5 -C.sub.6 cycloalkyl, C.sub.6 -C.sub.10 aryl, or C.sub.7 -C.sub.11 arylalkyl group, and

R.sub.4 and R.sub.5 independently represent H, a C.sub.1 -C.sub.12 alkyl group, C.sub.5 -C.sub.10 cycloalkyl, C.sub.6 -C.sub.10 aryl, or C.sub.7 -C.sub.11 arylalkyl group, provided that at least R.sub.1 or R.sub.2 is not hydrogen.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 13 OF 43 USPATFULL on STN

ACCESSION NUMBER: 94:99905 USPATFULL

TITLE: Preparation of compact or cellular elastomers containing urethane and urea groups, and moldings produced therefrom

INVENTOR(S): Hinz, Werner, Frankenthal, Germany, Federal Republic of
Maletzko, Christian, Mannheim, Germany, Federal Republic of
Becker, Johannes, Ludwigshafen, Germany, Federal Republic of

PATENT ASSIGNEE(S): Matzke, Guenter, Ketsch, Germany, Federal Republic of
BASF Aktiengesellschaft, Ludwigshafen, Germany, Federal Republic of (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5364852		19941115
APPLICATION INFO.:	US 1993-53759		19930429 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1992-4218791	19920606
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Seidleck, James J.	
ASSISTANT EXAMINER:	Critharis, Mary	
LEGAL REPRESENTATIVE:	Golota, Mary E.	
NUMBER OF CLAIMS:	11	

EXEMPLARY CLAIM: 1
 LINE COUNT: 1043

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compact or cellular elastomers containing urethane and urea groups are prepared by reacting

- a) at least one organic and/or modified organic polyisocyanate
- b) at least one N-propoxylated polyoxyalkylene-polyamine containing at least 50% of secondary amino groups or a mixture of said N-propoxylated polyoxyalkylene-polyamines and polyoxyalkylene-polyamines containing 2 to 4 primary amino groups and having a molecular weight of from 1000 to 8000,
- c) at least one alkyl-substituted aromatic polyamine having a molecular weight up to 500, in the presence or absence of
- d) catalysts and, if desired,
- e) blowing agents,
- f) auxiliaries and/or
- g) additives.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 14 OF 43 USPATFULL on STN

ACCESSION NUMBER: 93:69964 USPATFULL
 TITLE: Cyclohexanedimethanoladipate based prepolymers and reaction injection molded products made therefrom
 INVENTOR(S): Mafoti, Robson, Pittsburgh, PA, United States
 PATENT ASSIGNEE(S): Miles Inc., Pittsburgh, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5239038		19930824
APPLICATION INFO.:	US 1989-442805		19891129 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Kight, III, John		
ASSISTANT EXAMINER:	Truong, Duc		
LEGAL REPRESENTATIVE:	Gil, Joseph C., Akorli, Godfried R.		
NUMBER OF CLAIMS:	7		
EXEMPLARY CLAIM:	1		
LINE COUNT:	600		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to a polyisocyanate prepolymer prepared by reacting an isocyanate based on 4,4-methylenebis(phenyl isocyanate) and a polyester polyol by reacting 1,4-cyclohexanedimethanol and adipic acid. The invention is also directed to a RIM process using such prepolymers.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 15 OF 43 USPATFULL on STN

ACCESSION NUMBER: 93:48632 USPATFULL
TITLE: Polyurea rim systems
INVENTOR(S): Slack, William E., Moundsville, WV, United States
Kratz, Mark R., Hannibal, OH, United States
PATENT ASSIGNEE(S): Miles Inc., Pittsburgh, PA, United States (U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5219973		19930615
APPLICATION INFO.:	US 1990-623469		19901207 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Kight, III, John		
ASSISTANT EXAMINER:	Truong, Duc		
LEGAL REPRESENTATIVE:	Gil, Joseph C., Brown, N. Denise		
NUMBER OF CLAIMS:	14		
EXEMPLARY CLAIM:	1		
LINE COUNT:	741		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to a RIM process and an isocyanate reactive composition for use therein. The isocyanate composition includes an amine terminated chain extender and an aromatic amine terminated polyether of the formula: ##STR1## wherein R is an n-valent group obtained by the removal of hydroxyl groups from an n-hydroxy group containing polyhydroxyl compound having a molecular weight of from about 300 to about 12,000,

R.sub.1 represents hydrogen or an inert substituent,

R.sub.2 represents hydrogen, an amine group, or an inert substituent, and

n represents an integer from 2 to 4.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 16 OF 43 USPATFULL on STN
ACCESSION NUMBER: 92:78648 USPATFULL
TITLE: Polyurea rim systems having improved flow properties and containing an organic cyclic carbonate
INVENTOR(S): Nodelman, Neil H., Pittsburgh, PA, United States
PATENT ASSIGNEE(S): Miles Inc., Pittsburgh, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5149458		19920922
APPLICATION INFO.:	US 1991-686555		19910417 (7)
RELATED APPLN. INFO.:	Division of Ser. No. US 1990-546078, filed on 29 Jun 1990, now patented, Pat. No. US 5028635 which is a continuation-in-part of Ser. No. US 1990-463762, filed on 12 Jan 1990, now abandoned which is a continuation of Ser. No. US 1989-346186, filed on 4 May 1989, now abandoned which is a continuation-in-part of Ser. No. US 1988-212751, filed on 28 Jun 1988, now abandoned		
DOCUMENT TYPE:	Utility		

FILE SEGMENT: Granted
 PRIMARY EXAMINER: Bleutge, John C.
 ASSISTANT EXAMINER: Krass, Frederick
 LEGAL REPRESENTATIVE: Gil, Joseph C.
 NUMBER OF CLAIMS: 3
 EXEMPLARY CLAIM: 1
 LINE COUNT: 623

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to a RIM process and an isocyanate-reactive mixture useful therein. The mixture comprises

i) a polyether having at least two isocyanate-reactive groups and a molecular weight of from 1800 to 12,000 in which at least 50% of the isocyanate-reactive groups are primary and/or secondary amine groups,

ii) an amine-terminated chain extender, and

iii) from 2 to 20 parts by weight per 100 parts by weight of components b) and c) of propylene carbonate.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 17 OF 43 USPATFULL on STN

ACCESSION NUMBER: 92:29727 USPATFULL
 TITLE: Combustion-modified polyurethane foam
 INVENTOR(S): Turner, Robert B., Lake Jackson, TX, United States
 Priestner, Jr., Ralph D., Lake Jackson, TX, United States
 Burkes, Stephen R., Lake Jackson, TX, United States
 PATENT ASSIGNEE(S): The Dow Chemical Company, Midland, MI, United States
 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5104910		19920414
APPLICATION INFO.:	US 1991-637105		19910103 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Welsh, Maurice J.		
LEGAL REPRESENTATIVE:	Galbraith, Ann K.		
NUMBER OF CLAIMS:	18		
EXEMPLARY CLAIM:	1		
LINE COUNT:	655		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Described herein is an isocyanate-reactive compound containing at least one linkage of the formula:

--X--X--

wherein X is independently in each occurrence --NR--, --S--, or --O--; R is independently in each occurrence hydrogen, C.sub.1-10 alkyl, aryl, or arylene; and at least one N, S, or O atom of the above formula is bonded to an aryl or arylene group. Also disclosed are isocyanate-reactive compositions containing the above compound and flexible polyurethane foams prepared therefrom.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 18 OF 43 USPATFULL on STN

ACCESSION NUMBER: 92:23268 USPATFULL

TITLE: Isocyanate terminated prepolymers and the use thereof
in a rim process

INVENTOR(S): Mafoti, Robson, Pittsburgh, PA, United States

PATENT ASSIGNEE(S): Mobay Corporation, Pittsburgh, PA, United States (U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5098984		19920324
APPLICATION INFO.:	US 1990-539100		19900615 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Kight, III, John		
ASSISTANT EXAMINER:	Cooney, Jr., John M.		
LEGAL REPRESENTATIVE:	Gil, Joseph C., Akorli, Godfried R.		
NUMBER OF CLAIMS:	5		
EXEMPLARY CLAIM:	1		
LINE COUNT:	756		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to a novel prepolymer and the use thereof in a RIM process. The prepolymer is an isocyanate terminated prepolymer having an isocyanate group content of from about 10 to about 26% by weight, and being prepared by a process comprising:

(a) reacting a C.sub.1 to C.sub.5 alkyl acetoacetate, with a polyol having a molecular weight of from about 500 to about 6000, and a hydroxyl functionality of from 2 to 4, and

(b) reacting the resultant product with an organic di- and/or polyisocyanate.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 19 OF 43 USPATFULL on STN

ACCESSION NUMBER: 91:52576 USPATFULL

TITLE: Isocyanate reactive mixture and the use thereof in the
manufacture of flexible polyurethane foams

INVENTOR(S): Milliren, Charles M., Coraopolis, PA, United States

PATENT ASSIGNEE(S): Mobay Corporation, Pittsburgh, PA, United States (U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5028637		19910702
APPLICATION INFO.:	US 1989-417934		19891006 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Kight, III, John		
ASSISTANT EXAMINER:	Truong, Duc		
LEGAL REPRESENTATIVE:	Gil, Joseph C., Whalen, Lyndanne M.		
NUMBER OF CLAIMS:	15		
EXEMPLARY CLAIM:	1		
LINE COUNT:	495		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to a reactive mixture for use in preparing a flexible polyurethane foam and to the foams produced therefrom. The reactive mixture broadly comprises an isocyanate reactive composition comprising:

A) from more than 0 up to 3 parts by weight per 100 parts by weight of components B) and C) of an amine of the formula:

H.sub.2 N--R--NH.sub.2

where R is a C.sub.3 to C.sub.10 straight or branched alkylene group or a C.sub.4 to C.sub.15 alicyclic group,

B) from more than 0 up to 40% by weight of a relatively high molecular weight compound containing at least two aromatically bound primary amine groups, and

C) from 60 to less than 100% by weight of one or more polyether polyhydroxyl compounds having hydroxyl functionalities of from 2 to 3 and molecular weights of from about 1000 to about 10,000, the percents by weight of component B) and component C) totalling 100%.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 20 OF 43 USPATFULL on STN

ACCESSION NUMBER: 91:52574 USPATFULL

TITLE: Polyurea-cyclic carbonate RIM systems having improved flow properties

INVENTOR(S): Nodelman, Neil H., Pittsburgh, PA, United States

PATENT ASSIGNEE(S): Mobay Corporation, Pittsburgh, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5028635		19910702
APPLICATION INFO.:	US 1990-546078		19900629 (7)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1990-463762, filed on 12 Jan 1990, now abandoned which is a continuation of Ser. No. US 1989-346186, filed on 4 May 1989, now abandoned which is a continuation-in-part of Ser. No. US 1988-212751, filed on 28 Jun 1988, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Kight, III, John		
ASSISTANT EXAMINER:	Krass, Frederick		
LEGAL REPRESENTATIVE:	Gil, Joseph C.		
NUMBER OF CLAIMS:	3		
EXEMPLARY CLAIM:	1		
LINE COUNT:	633		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to a RIM process and an isocyanate-reactive mixture useful therein. The mixture comprises

i) a polyether having at least two isocyanate-reactive groups and a molecular weight of from 1800 to 12,000 in which at least 50% of the isocyanate-reactive groups are primary and/or secondary amine groups,

- ii) an amine-terminated chain extender, and
- iii) from 2 to 20 parts by weight per 100 parts by weight of components b) and c) of propylene carbonate.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 113 21-31 ibib aba

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L13 ANSWER 21 OF 43 USPATFULL on STN

AB The present invention is directed to a polyisocyanate comprising the reaction product of

(a) an isocyanate selected from the group consisting of methylenebis(phenylisocyanate), polymethylenepoly(phenylisocyanate), and mixtures thereof, and

(b) a polyester polyol having a hydroxyl functionality of from 2 to 3 and a molecular weight of from about 750 to about 3500, said polyester polyol prepared by reacting neopentyl glycol and adipic acid,

the isocyanate group content of said reaction product from about 14% to about 28% by weight. The invention is also directed to a RIM process using such prepolymers.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 22 OF 43 USPATFULL on STN

AB Elastic molded articles having a closed surface layer are made from polyurea elastomers by the reaction injection molding technique. These polyurea elastomers are prepared from a polyisocyanate in which all of the isocyanate groups are aromatically bound, a polyether and a diamine. The polyether has at least two isocyanate-reactive groups and a molecular weight from 1800 to 12,000. At least 50% of the isocyanate-reactive groups in the polyether are primary and/or secondary amino groups. The diamine has a molecular weight from 108 to 400 and primary and/or secondary aromatically bound amino groups. Known auxiliary agents and additives may also be employed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 23 OF 43 USPATFULL on STN

AB Elastic molded articles having a closed surface layer are made from polyurea elastomers by the reaction injection molding technique. These polyurea elastomers are prepared from a polyisocyanate in which all of the isocyanate groups are aromatically bound, a polyether and a diamine. The polyether has at least two isocyanate-reactive groups and a molecular weight from 1800 to 12,000. At least 50% of the isocyanate-reactive groups in the polyether are primary and/or secondary amino groups. The diamine has a molecular weight from 108 to

400 and primary and/or secondary aromatically bound amino groups. Known auxiliary agents and additives may also be employed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 24 OF 43 USPATFULL on STN

AB The present invention relates to a process for the production of polyurethane-urea or polyurea-based microcellular of foam moldings by reacting a polyisocyanate component containing aromatically bound isocyanate groups with an isocyanate-reactive component containing at least one compound which has at least three aliphatic ether groups and aliphatically bound isocyanate-reactive groups and wherein a portion of the aliphatically bound-reactive groups are amino groups which have been converted to ammonium carbamate, carbonate or bicarbonate groups.

The present invention also relates to the compounds containing aliphatic ether groups and ammonium carbamate, carbonate or bicarbonate groups, optionally in admixture with compounds containing unmodified amino groups or other known isocyanate-reactive compounds.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 25 OF 43 USPATFULL on STN

AB The present invention is directed to a process for the production of optionally cellular, polyurethane and/or polyurethane-urea moldings having an impervious skin by reacting in a closed mold a reaction mixture containing

(a) at least one organic polyisocyanate,

(b) at least one compound which has a molecular weight of about 400 to 12,000 and at least two isocyanate-reactive groups, and

(c) optionally at least one compound which has a molecular weight of from 32 to 399 and at least two isocyanate-reactive groups,

wherein before the reaction takes place a surface-improving additive (e) is added containing

(e1) a liquid and sedimentation-stable polymer dispersion which is produced by the free radical addition polymerization or copolymerization of one or more olefinically unsaturated monomers in a high molecular weight compound having isocyanate-reactive groups of the type mentioned in (b),

and optionally

(e2) a metal salt of a monocarboxylic acid having at least 8 carbon atoms in the molecule

wherein additive (e) is used in a quantity such that about 0.01 to 3 parts by weight of polymer solids of the polymer dispersion (e1) and up to about 2 parts by weight of metal salt (e2) are incorporated per 100 parts of component (b).

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 26 OF 43 USPATFULL on STN

AB Dialkyl diamines for use with polyols and polyisocyanates in cast elastomer and reaction injection molding polyurethane processes. The dialkyl diamines are prepared by nitration and reduction of dialkylbenzenes or alkylation of meta-phenylenediamine. The chain extenders have the following structure: ##STR1## where R.sub.1 is C.sub.1 -C.sub.6 alkyl or C.sub.3 -C.sub.6 cycloalkyl and R.sub.2 is C.sub.2 -C.sub.6 alkyl or C.sub.3 -C.sub.6 cycloalkyl.

Contrary to the teachings of the prior art the novel diamines have surprisingly good reaction times to form polyurethanes with excellent physical properties. Furthermore, little or no mold release is required in RIM and other processes using the chain extenders of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 27 OF 43 USPATFULL on STN

AB The present invention is directed to a process for the production of polyurea-based microcellular moldings comprising reacting

(a) at least one diisocyanate or polyisocyanate containing only aromatically bound isocyanate groups,

(b) at least one compound containing at least two isocyanate-reactive groups, and

(c) optionally the auxiliaries and additives known in polyurethane chemistry, in closed molds, components (a)-(c) being processed as a one-shot system by reaction injection molding, characterized in that component (b) comprises at least one polyether compound (b1) optionally in admixture with other isocyanate-reactive compounds and containing at least 3 aliphatically bonded ether groups and n-aliphatically bonded isocyanate-reactive groups, n standing for an integer or, statistically a fraction of from 2-4

(i) at least (100:n) % of the isocyanate-reactive groups present in component (b1) being aliphatically bonded primary and/or secondary amino groups,

(ii) at least 10 equivalent % of said amino groups being present in the form of ammonium carbamate groups having a functionality of two in the isocyanate addition reaction, of the type obtained by reacting aliphatically bonded, primary or secondary amino groups with carbon dioxide,

(iii) the unmodified compounds containing at least 3 ether groups having a molecular weight of from 200 to 10,000 and

(iv) at least 0,2 equivalent % of all isocyanate-reactive groups of the total component (b) being ammonium carbamate groups.

The present invention also relates to said compounds (b) optionally in admixture with the auxiliaries and additives known in polyurethane chemistry.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 28 OF 43 USPATFULL on STN

AB A process for the production of optionally cellular molded articles with a smooth outer skin and improved surface characteristics by the reaction, inside a closed mold, of a mixture of one or more organic polyisocyanates, one or more compounds having molecular weights of from 400 to 12,000, which contain at least two isocyanate-reactive groups, chain-linking and/or chain-extending agents, and optionally, known auxiliary agents and additives used in polyurethane chemistry, characterized in that before the reaction, surface-improving additives comprising one or more polymers or copolymers of one or more olefinically-unsaturated monomers, which polymers or copolymers have molecular weights of from 200 to 50,000, are liquid at room temperature, soluble in the reaction mixture, and inert toward isocyanate groups and at least one metal salt of a monocarboxylic acid having at least 8 carbon atoms, are incorporated into the reaction mixture.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

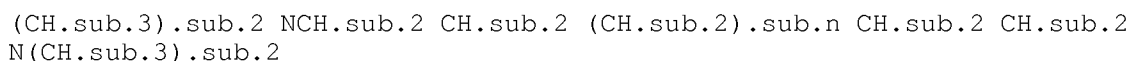
L13 ANSWER 29 OF 43 USPATFULL on STN

AB The invention is directed to a process for the production of polyether polyols having an average molecular weight of from 200 to 10,000 and an average hydroxyl functionality of from 2.0 to 7.0, comprising reacting one or more alkylene oxides, optionally successively, with a mixture of polyhydric alcohols which has been produced by reduction of the condensation products from the condensation of formaldehyde hydrate. The invention is also directed to the process for the production of polyether polyols characterized in that the mixture of polyhydric alcohols is mixed with dihydric and/or trihydric alcohols and/or monoamines or polyamines prior to alkoxylation. Finally, the invention is directed to the use of the alkoxyated mixtures as the isocyanate-reactive component in the production of optionally cellular polyurethane plastics.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 30 OF 43 USPATFULL on STN

AB A process for preparation of a urethane foam which comprises reacting an aromatic polyisocyanate with a polyol in the presence of a blowing agent and a catalytic amount of a compound of the formula



wherein n is 4, 3, 2, 1, or 0.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 31 OF 43 USPATFULL on STN

AB This invention relates to an improved process for the production of a mixture of low molecular weight polyhydric alcohols, hydroxy aldehydes and hydroxy ketones by condensing formaldehyde hydrate in the presence of calcium hydroxide as catalyst and in the presence of compounds capable of enediol formation as co-catalyst. A formaldehyde-containing enediol formation as co-catalyst. A formaldehyde containing solution of the co-catalyst in water and, optionally, low molecular weight monohydric or polyhydric alcohols and/or relatively high molecular weight polyhydroxyl compounds is adjusted to a pH value of from 9 to 12,

preferably from 9 to 10, by the addition of calcium hydroxide at a temperature of from 80° to 110° C., preferably from 90° to 105° C., so that condensation of the formaldehyde hydrate is initiated. An aqueous formalin solution and/or paraformaldehyde dispersion containing from 20 to 65%, by weight, of formaldehyde and calcium hydroxide are then introduced in such a quantity that the reaction mixture is maintained at a pH value of from 7.5 to 9.5, preferably from 8 to 9, at a temperature of from 80° to 110° C., preferably from 90° to 105° C. The concentration of formaldehyde is maintained at from 0.5 to 10%, by weight, preferably from 1.2 to 6%, by weight, based on the reaction mixture as a whole, throughout the condensation reaction. Finally, the residual quantity of formaldehyde, amounting to from 0.5 to 10%, by weight, is optionally removed by further condensation at pH values below 7 or by reaction with other compounds that are reactive with formaldehyde hydrate.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 113 32-43 ibib abs

L13 ANSWER 32 OF 43 USPATFULL on STN

ACCESSION NUMBER: 79:26205 USPATFULL

TITLE: Process for the production of low molecular weight polyhydroxyl compounds

INVENTOR(S): Muller, Hanns P., Leverkusen, Germany, Federal Republic of

PATENT ASSIGNEE(S): Wagner, Kuno, Leverkusen, Germany, Federal Republic of
Bayer Aktiengesellschaft, Leverkusen, Germany, Federal Republic of (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4156636		19790529
APPLICATION INFO.:	US 1978-934567		19780817 (5)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1977-2738512	19770826
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Evans, Joseph E.	
LEGAL REPRESENTATIVE:	Harsh, Gene, Gil, Joseph C.	
NUMBER OF CLAIMS:	11	
EXEMPLARY CLAIM:	1,11	
LINE COUNT:	898	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Low molecular weight polyhydroxyl compounds are made from formaldehyde hydrate by an improved process comprising adjusting the pH of an aqueous solution of formaldehyde and co-catalyst to 9-12 with calcium hydroxide at 80°-110° C. to begin condensation and then adding to this reaction mixture aqueous formalin and/or paraformaldehyde and calcium hydroxide to maintain a pH of 7.5-9.5 and temperature of 80°-110° C.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 33 OF 43 USPATFULL on STN

ACCESSION NUMBER: 78:59947 USPATFULL

TITLE: Catalyst systems containing dimethylamino ether
mono-ols for polyurethane foam formation

INVENTOR(S): Sandner, Michael Ray, Chappaqua, NY, United States

Duffy, Robert Donovan, Summersville, WV, United States

PATENT ASSIGNEE(S): Union Carbide Corporation, New York, NY, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4122038		19781024
APPLICATION INFO.:	US 1977-819331		19770727 (5)
RELATED APPLN. INFO.:	Division of Ser. No. US 1975-581745, filed on 29 May 1975, now patented, Pat. No. US 4049931		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Garvin, Patrick		
LEGAL REPRESENTATIVE:	Klosty, Marylin		
NUMBER OF CLAIMS:	7		
EXEMPLARY CLAIM:	1		
LINE COUNT:	2964		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Cellular urethane polymers are provided by effecting the reaction of an organic polyol reactant comprising a polyether polyol and an organic polyisocyanate reactant in the presence of a blowing agent and a catalyst system comprising a tertiary-dimethylamino ether mono-ol. In the dimethylamino ether mono-ols employed as catalysts in the practice of the invention, the tertiary-dimethylamino group and the hydroxyl group are positioned beta to a common acyclic ether oxygen atom or to different acyclic ether oxygen atoms which in turn are positioned beta to one another. The said dimethylamino ether mono-ols are versatile, low odor catalysts and are useful in forming cellular urethane polymers ranging from all water-blown flexible polyether foam to all fluorocarbon-blown rigid foam including semi-flexible and high-resilience foam products. Especially preferred for use in the practice of the invention are 2-(2-dimethylaminoethoxy)ethanol and 2-[2-(2-dimethylaminoethoxy)ethoxy]ethanol either as such or in combination with other catalysts including other tertiary-amine components and/or organic compounds of tin. Also provided are blended catalyst systems comprising said dimethylamino ether mono-ols.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 34 OF 43 USPATFULL on STN

ACCESSION NUMBER: 77:51315 USPATFULL

TITLE: Catalyst systems containing dimethylamino ether
mono-ols for polyurethane foam formation

INVENTOR(S): Sandner, Michael Ray, Chappaqua, NY, United States

Duffy, Robert Donovan, Summersville, WV, United States

PATENT ASSIGNEE(S): Union Carbide Corporation, New York, NY, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4049931		19770920

APPLICATION INFO.: US 1975-581745 19750529 (5)
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Czaja, Donald E.
ASSISTANT EXAMINER: Fletcher, H. H.
LEGAL REPRESENTATIVE: Klosty, Marylin
NUMBER OF CLAIMS: 50
EXEMPLARY CLAIM: 1
LINE COUNT: 3171

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Cellular urethane polymers are provided by effecting the reaction of an organic polyol reactant comprising a polyether polyol and an organic polyisocyanate reactant in the presence of a blowing agent and a catalyst system comprising a tertiary-dimethylamino ether mono-ol. In the dimethylamino ether mono-ols employed as catalysts in the practice of the invention, the tertiary-dimethylamino group and the hydroxyl group are positioned beta to a common acyclic ether oxygen atom or to different acyclic ether oxygen atoms which in turn are positioned beta to one another. The said dimethylamino ether mono-ols are versatile, low odor catalysts and are useful in forming cellular urethane polymers ranging from all water-blown flexible polyether foam to all fluorocarbon-blown rigid foam including semi-flexible and high-resilience foam products. Especially preferred for use in the practice of the invention are 2-(2-dimethylaminoethoxy)ethanol and 2-[2-(2-dimethylaminoethoxy)ethoxy]ethanol either as such or in combination with other catalysts including other tertiary-amine components and/or organic compounds of tin. Also provided are blended catalyst systems comprising said dimethylamino ether mono-ols.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 35 OF 43 USPATOLD on STN
ACCESSION NUMBER: 1974:65637 USPATOLD
TITLE: MONO AND TRIS(AMINO LOWERALKOXY) (ALKYL)
POLYOXYALKYLENE COMPOUNDS AND METHOD OF PREPARATION
INVENTOR(S): POPPELSDORF F
PATENT ASSIGNEE(S): UNION CARBIDE CORPORATION

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3799986	A	19740326
APPLICATION INFO.:	US 1967-689004		19671201

	NUMBER	DATE
PRIORITY INFORMATION:	US 1967-689004	19671208
	US 1961-107060	19610502
	US 1967-688971	19671208
	US 1967-688976	19671208
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	HIGEL, FLOYD D	
LINE COUNT:	1376	

L13 ANSWER 36 OF 43 USPATOLD on STN
ACCESSION NUMBER: 1972:61906 USPATOLD
TITLE: DIACID BRIDGED RING COMPOUNDS

INVENTOR(S): LYNN JOHN W
HENRY JOSEPH P
TRECKER DAVID J
PATENT ASSIGNEE(S): UNION CARBIDE CORPORATION

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3646132	A	19720229
APPLICATION INFO.:	US 1969-846251		19690701

	NUMBER	DATE
PRIORITY INFORMATION:	US 1965-520298	19651209
	US 1969-846251	19690730
	US 1969-846256	19690730

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: WEINBERGER, LORRAINE A
ASSISTANT EXAMINER: GLEIMAN, E J
LINE COUNT: 1678
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 37 OF 43 USPATOLD on STN
ACCESSION NUMBER: 1972:61815 USPATOLD
TITLE: SYM TRIS (4 PIPERIDYL) CYCLOHEXANES
INVENTOR(S): UELZMANN HEINZ
PATENT ASSIGNEE(S): GENCORP INC.

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3646041	A	19720229
APPLICATION INFO.:	US 1970-7310		19700101

	NUMBER	DATE
PRIORITY INFORMATION:	US 1970-7310	19700108

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: JILES, HENRY R
ASSISTANT EXAMINER: TODD, G T
LINE COUNT: 749
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 38 OF 43 USPATOLD on STN
ACCESSION NUMBER: 1971:56250 USPATOLD
TITLE: BETA CYANOALKYL ETHERS OF POLYOXYALKYLENE ADDUCTS OF
MODERATELY HIGH MOLECULAR WEIGHT
INVENTOR(S): POPPELSDORF FEDOR
PATENT ASSIGNEE(S): UNION CARBIDE CORPORATION

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3560549	A	19710202
APPLICATION INFO.:	US 1967-688976		19671201

	NUMBER	DATE
PRIORITY INFORMATION:	US 1961-107060	19610502
	US 1967-688971	19671208
	US 1967-688976	19671208
	US 1967-689004	19671208
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	BRUST, JOSEPH P	
LINE COUNT:	1584	

L13 ANSWER 39 OF 43 USPATOLD on STN
ACCESSION NUMBER: 1970:41512 USPATOLD
TITLE: METHOD FOR MAKING SYM TRIS(4 PYRIDYL) CYCLOHEXANES AND
ALKYL SUBSTITUTED SYM TRIS (4 PYRIDYL) CYCLOHEXANES
INVENTOR(S): UELZMANN HEINZ
PATENT ASSIGNEE(S): GENCORP INC.

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3528988	A	19700915
APPLICATION INFO.:	US 1967-674760		19671001

	NUMBER	DATE
PRIORITY INFORMATION:	US 1967-674760	19671012
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	RANDOLPH, JOHN D	
LINE COUNT:	768	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L13 ANSWER 40 OF 43 USPATOLD on STN
ACCESSION NUMBER: 1970:4861 USPATOLD
TITLE: NORBORNANE DIISOCYANATES
INVENTOR(S): LYNN JOHN W
HENRY JOSEPH P
TRECKER DAVID J
PATENT ASSIGNEE(S): UNION CARBIDE CORPORATION

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3492330	A	19700127
APPLICATION INFO.:	US 1966-520298		19660101

	NUMBER	DATE
PRIORITY INFORMATION:	US 1965-520298	19651209
	US 1969-846251	19690730
	US 1969-846256	19690730
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	PARKER, CHARLES B	
LINE COUNT:	1827	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L13 ANSWER 41 OF 43 USPATOLD on STN

ACCESSION NUMBER: 1966:29487 USPATOLD

TITLE: Products resulting from the reaction of carbonate diisocyanates with active hydrogen compounds

INVENTOR(S): BROTHERTON THOMAS K
LYNN JOHN W

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3256220	A	19660614
APPLICATION INFO.:	US 1964-413927		19641125

	NUMBER	DATE
PRIORITY INFORMATION:	US 1964-413927	19641125
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	BERCOVITZ	
LINE COUNT:	2777	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L13 ANSWER 42 OF 43 USPATOLD on STN

ACCESSION NUMBER: 1966:29480 USPATOLD

TITLE: Preparation of cellular isocyanate polyamino compound reaction products

INVENTOR(S): MAXEY EDWIN M
GMITTER GEORGE T

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3256213	A	19660614

	NUMBER	DATE
PRIORITY INFORMATION:	US 1962-198765	19620531
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	BERCOVITZ, LEON L	
LINE COUNT:	710	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L13 ANSWER 43 OF 43 USPAT2 on STN

ACCESSION NUMBER: 2003:325213 USPAT2

TITLE: High performance RIM elastomers and a process for their production

INVENTOR(S): Super, Michael S., Oakdale, PA, United States
Steppan, David D., Gibsonia, PA, United States
Slack, William E., Moundsville, WV, United States
Potts, Bruce H., Beaver, PA, United States
Hurley, Michael F., Pittsburgh, PA, United States
PATENT ASSIGNEE(S): Bayer Corporation, Pittsburgh, PA, United States (U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION:  US 6765080          B2    20040720
APPLICATION INFO.:   US 2002-165297        20020606  (10)
DOCUMENT TYPE:      Utility
FILE SEGMENT:       GRANTED
PRIMARY EXAMINER:    Sergeant, Rabon
LEGAL REPRESENTATIVE: Gil, Joseph C., Brown, N. Denise
NUMBER OF CLAIMS:    26
EXEMPLARY CLAIM:     1
NUMBER OF DRAWINGS:  0 Drawing Figure(s); 0 Drawing Page(s)
LINE COUNT:         1256

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CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to high performance RIM (reaction injection molded) poly(urethane)urea elastomers, and to a process for their production. These elastomers comprise the reaction product of an allophanate-modified diphenylmethane diisocyanate prepolymer having an NCO group content of about 5 to about 30%, with an isocyanate-reactive component comprising a high molecular weight amine-terminated polyether polyol, an aromatic diamine chain extender, and, optionally, a chain extender or crosslinker selected from the group consisting of aliphatic amine terminated polyether polyols and aliphatic hydroxyl terminated polyether polyols, optionally, in the presence of an internal mold release agent, a surfactant and a filler.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d his

(FILE 'HOME' ENTERED AT 08:06:06 ON 17 JUL 2008)

FILE '1MOBILITY, 2MOBILITY, ALUMINIUM, ANTE, APOLLIT, BABS, CAPLUS, CBNB, CEABA-VTB, CERAB, CIN, CIVILENG, COMPENDEX, COPPERLIT, CORROSION, DKF, EMA, ENERGY, HEALSAFE, IFIPAT, INSPEC, INSPHYS, MATBUS, MDF, MECHENG, METADEX, MSDS-CCOHS, MSDS-OHS, PASCAL, ...' ENTERED AT 08:07:07 ON 17 JUL 2008

```

L1      4054 S FLEXIBLE (L) POLYURETHANE (L) DIOL (L) TRIOL
L2      0 S L1 (L) HYDRODROFORMYLATION (L) RANEY (2W) NICKEL
L3      8 S L1 (L) HYDROFORMYLATION (L) (RANEY (2W) NICKEL)
L4      57 S L1 (L) (RANEY (2W) NICKEL)
L5      49 S L4 NOT L3
L6      45 S L5 AND RATIO
L7      33 S L6 AND (ETHANOL OR METHANOL OR PROPANOL)
L8      2442 S L1 AND FOAM
L9      54 S L8 AND (RANEY (2W) NICKEL) AND RATIO
L10     42 S L9 AND (METHANOL OR ETHANOL OR PROPANOL)
L11     36 S L10 NOT L3
L12     2320 S FLEXIBLE (L) POLYURETHANE (L) FOAM (L) DIOL (L) TRIOL (L) MIX
L13     43 S L12 AND (METHANOL OR ETHANOL OR PROPANOL) AND (RANEY (2W) NI

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=> s l12 and (raney (2w) nickel)

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L14      56 L12 AND (RANEY (2W) NICKEL)
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=> s l14 and hydrogenation

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L15      49 L14 AND HYDROGENATION
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=> d l15 1-11 ibib abs

L15 ANSWER 1 OF 49 IFIPAT COPYRIGHT 2008 IFI on STN
 AN 11244745 IFIPAT;IFIUDB;IFICDB
 TITLE: ALDEHYDE AND ALCOHOL COMPOSITIONS DERIVED FROM SEED OILS
 INVENTOR(S): Babb; David A., Lake Jackson, TX, US
 Bunning; Donald L., South Charleston, WV, US
 Derstine; Christopher W., Winfield, WV, US
 Gilchrist; James H., Dunbar, WV, US
 Jouett; H. Ray, Houston, TX, US
 Kanel; Jeffrey S., Hurricane, WV, US
 Lysenko; Zenon, Midland, MI, US
 Morrison; Donald L., Fort Collins, CO, US
 Olson; Kurt D., Cross Lanes, WV, US
 Peng; Wei-Jun, Hurricane, WV, US
 Philips; Joe D., Lake Jackson, TX, US
 Roesch; Brian M., Cross Lanes, WV, US
 Sanders; Aaron W., Missouri City, TX, US
 Schrock; Alan K., Lake Jackson, TX, US
 Thomas; Pulikkottil J., Midland, MI, US
 PATENT ASSIGNEE(S): Unassigned
 PATENT ASSIGNEE PROBABLE: Dow Chemical Co The (Probable)
 AGENT: THE DOW CHEMICAL COMPANY, INTELLECTUAL PROPERTY SECTION, P. O. BOX 1967, MIDLAND, MI, 48641-1967, US

	NUMBER	PK	DATE
PATENT INFORMATION:	US 2006193802	A1	20060831
APPLICATION INFORMATION:	US 2004-551854		20040422
	WO 2004-US12246		20040422
			20050930 PCT 371 date
			20050930 PCT 102(e) date

	NUMBER	DATE
PRIORITY APPLN. INFO.:	US 2003-465663P	20030425 (Provisional)
FAMILY INFORMATION:	US 2006193802	20060831
DOCUMENT TYPE:	Utility	
	Patent Application - First Publication	
FILE SEGMENT:	CHEMICAL	
	APPLICATION	
ENTRY DATE:	Entered STN: 1 Sep 2006	
	Last Updated on STN: 1 Sep 2006	

PARENT CASE DATA:

This application claims the benefit of U.S. Provisional Patent Application Ser. No. 60/465,663, filed Apr. 25, 2003.

NUMBER OF CLAIMS: 34

AB An aldehyde composition derived by hydroformylation of a transesterified seed oil and containing a mixture of formylsubstituted fatty acids or fatty acid esters having the following composition by weight: greater than about 10 to less than about 95 percent monoformyl, greater than about 1 to less than about 65 percent diformyl, and greater than about 0.1 to less than about 10 percent triformyl-substituted fatty acids or fatty acid esters, and having a diformyl to triformyl weight ratio of

greater than about 5/1; preferably, greater than about 3 to less than about 20 percent saturates; and preferably, greater than about 1 to less than about 20 percent unsaturates. An alcohol composition derived by hydrogenation of the aforementioned aldehyde composition, containing a mixture of hydroxymethyl-substituted fatty acids or fatty acid esters having the following composition by weight: greater than about 10 to less than about 95 percent monoalcohol (mono(hydroxymethyl)), greater than about 1 to less than about 65 percent diol (di(hydroxymethyl)), greater than about 0.1 to less than about 10 percent triol, tri(hydroxymethyl)-substituted fatty acids or fatty acid esters; preferably greater than about 3 to less than about 35 percent saturates; and preferably, less than about 10 percent unsaturates. The alcohol composition can be converted into an oligomeric polyol for use in the manufacture of polyurethane slab stock flexible foams.

CLMN 34

L15 ANSWER 2 OF 49 USPATFULL on STN

ACCESSION NUMBER: 2007:201150 USPATFULL
 TITLE: Bioplastics, monomers thereof, and processes for the preparation thereof from agricultural feedstocks
 INVENTOR(S): Narine, Suresh, Alberta, CANADA
 Sporns, Peter, Alberta, CANADA
 Yue, Jin, Alberta, CANADA

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20070175793	A1	20070802
APPLICATION INFO.:	US 2007-649620	A1	20070104 (11)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2006-755770P	20060104 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	DANN, DORFMAN, HERRELL & SKILLMAN, 1601 MARKET STREET, SUITE 2400, PHILADELPHIA, PA, 19103-2307, US	
NUMBER OF CLAIMS:	40	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	87 Drawing Page(s)	
LINE COUNT:	3864	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates generally to polymers and monomers derived from agricultural feedstocks, and more particularly to methods for the production of monomers from renewable agricultural resources such as feedstocks, for example canola, flax and tallow, and polymers, in particular polyurethanes produced from monomers derived from such feedstocks. The present invention also relates to novel processes for the production of short-chain alcohols, as well as hydroxyl wax esters, from renewable feedstocks. An improved apparatus for carrying out ozonolysis reactions is also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 3 OF 49 USPATFULL on STN

ACCESSION NUMBER: 2007:89677 USPATFULL
 TITLE: Super soft elastomers as skinning material for

INVENTOR(S): composites
 Ulbrich, Dagmar, Koln, GERMANY, FEDERAL REPUBLIC OF
 Guether, Ralf, McDonald, PA, UNITED STATES
 Bohne, Franz-Josef, Leichlingen, GERMANY, FEDERAL
 REPUBLIC OF
 Schutze, Marc, Dortmund, GERMANY, FEDERAL REPUBLIC OF
 Rosthauser, James W., Pittsburgh, PA, UNITED STATES
 Perry, John H., Scenery Hill, PA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20070078253	A1	20070405
APPLICATION INFO.:	US 2005-241208	A1	20050930 (11)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	BAYER MATERIAL SCIENCE LLC, 100 BAYER ROAD, PITTSBURGH, PA, 15205, US		
NUMBER OF CLAIMS:	22		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1148		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to soft sprayable polyurethane elastomers which exhibit low hardness without the addition of plasticizers. Other aspects of this invention are composites with a soft touch surface and processes of making these composites. These composites may also be decorative and/or pigmented composites.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 4 OF 49 USPATFULL on STN

ACCESSION NUMBER: 2006:227438 USPATFULL

TITLE: Aldehyde and alcohol compositions derived from seed oils

INVENTOR(S): Lysenko, Zenon, Midland, MI, UNITED STATES
 Morrison, Donald L., Fort Collins, CO, UNITED STATES
 Babb, David A., Lake Jackson, TX, UNITED STATES
 Bunning, Donald L., South Charleston, WV, UNITED STATES
 Derstine, Christopher W., Winfield, WV, UNITED STATES
 Gilchrist, James H., Dunbar, WV, UNITED STATES
 Jouett, H. Ray, Houston, TX, UNITED STATES
 Kanel, Jeffrey S., Hurricane, WV, UNITED STATES
 Olson, Kurt D., Cross Lanes, WV, UNITED STATES
 Peng, Wei-Jun, Hurricane, WV, UNITED STATES
 Philips, Joe D., Lake Jackson, TX, UNITED STATES
 Roesch, Brian M., Cross Lanes, WV, UNITED STATES
 Sanders, Aaron W., Missouri City, TX, UNITED STATES
 Schrock, Alan K., Lake Jackson, TX, UNITED STATES
 Thomas, Pulikkotttil J., Midland, MI, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20060193802	A1	20060831
APPLICATION INFO.:	US 2004-551854	A1	20040422 (10)
	WO 2004-US12246		20040422
			20050930 PCT 371 date

NUMBER	DATE
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PRIORITY INFORMATION: US 2003-465663P 20030425 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: THE DOW CHEMICAL COMPANY, INTELLECTUAL PROPERTY
SECTION, P. O. BOX 1967, MIDLAND, MI, 48641-1967, US
NUMBER OF CLAIMS: 34
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 1 Drawing Page(s)
LINE COUNT: 1284
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An aldehyde composition derived by hydroformylation of a transesterified seed oil and containing a mixture of formyl-substituted fatty acids or fatty acid esters having the following composition by weight: greater than about 10 to less than about 95 percent monoformyl, greater than about 1 to less than about 65 percent diformyl, and greater than about 0.1 to less than about 10 percent triformyl-substituted fatty acids or fatty acid esters, and having a diformyl to triformyl weight ratio of greater than about 5/1; preferably, greater than about 3 to less than about 20 percent saturates; and preferably, greater than about 1 to less than about 20 percent unsaturates. An alcohol composition derived by hydrogenation of the aforementioned aldehyde composition, containing a mixture of hydroxymethyl-substituted fatty acids or fatty acid esters having the following composition by weight: greater than about 10 to less than about 95 percent monoalcohol {mono(hydroxymethyl)}, greater than about 1 to less than about 65 percent diol {di(hydroxymethyl)}, greater than about 0.1 to less than about 10 percent triol, tri(hydroxymethyl)-substituted fatty acids or fatty acid esters; preferably greater than about 3 to less than about 35 percent saturates; and preferably, less than about 10 percent unsaturates. The alcohol composition can be converted into an oligomeric polyol for use in the manufacture of polyurethane slab stock flexible foams.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 5 OF 49 USPATFULL on STN

ACCESSION NUMBER: 2005:264715 USPATFULL
TITLE: Activatable material and method of forming and using same
INVENTOR(S): Kassa, Abraham, Shelby Township, MI, UNITED STATES
Harthcock, Matthew, Oakland Township, MI, UNITED STATES
Sendijarevic, Aisa, Troy, MI, UNITED STATES
Sendijarevic, Vahid, Troy, MI, UNITED STATES
PATENT ASSIGNEE(S): L&L Products, Inc., Romeo, MI, UNITED STATES (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20050230027	A1	20051020
APPLICATION INFO.:	US 2005-89712	A1	20050325 (11)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2004-622442P	20041027 (60)
	US 2004-562663P	20040415 (60)
DOCUMENT TYPE:	Utility	

FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: DOBRUSIN & THENNISCH PC, 29 W LAWRENCE ST, SUITE 210,
PONTIAC, MI, 48342, US
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Page(s)
LINE COUNT: 1354

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An activatable material and articles incorporating the same is disclosed. The activatable material includes an isocyanate and an isocyanate reactive compound. The isocyanate is typically blocked such that the activatable material is non-reactive at temperatures below about 100° C. The activatable material is preferably used for sealing, baffling, reinforcing, adhering, sound attenuation, sound damping or the like of an article of manufacture such as an automotive vehicle.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 6 OF 49 USPATFULL on STN

ACCESSION NUMBER: 2003:325213 USPATFULL
TITLE: HIGH PERFORMANCE RIM ELASTOMERS AND A PROCESS FOR THEIR PRODUCTION
INVENTOR(S): Super, Michael S., Oakdale, PA, UNITED STATES
Steppan, David D., Gibsonia, PA, UNITED STATES
Slack, William E., Moundsville, WV, UNITED STATES
Potts, Bruce H., Beaver, PA, UNITED STATES
Hurley, Michael F., Pittsburgh, PA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20030229195	A1	20031211
	US 6765080	B2	20040720
APPLICATION INFO.:	US 2002-165297	A1	20020606 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	BAYER POLYMERS LLC, 100 BAYER ROAD, PITTSBURGH, PA, 15205		
NUMBER OF CLAIMS:	26		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1305		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to high performance RIM (reaction injection molded) poly(urethane)urea elastomers, and to a process for their production. These elastomers comprise the reaction product of an allophanate-modified diphenylmethane diisocyanate prepolymer having an NCO group content of about 5 to about 30%, with an isocyanate-reactive component comprising a high molecular weight amine-terminated polyether polyol, an aromatic diamine chain extender, and, optionally, a chain extender or crosslinker selected from the group consisting of aliphatic amine terminated polyether polyols and aliphatic hydroxyl terminated polyether polyols, optionally, in the presence of an internal mold release agent, a surfactant and a filler.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 7 OF 49 USPATFULL on STN

ACCESSION NUMBER: 2002:109128 USPATFULL
TITLE: Polyurethane compositions made from hydroxy-terminated
polydiene polymers
INVENTOR(S): St. Clair, David John, 13831 Queensbury, Houston, TX,
United States 77079

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6388010	B1	20020514
APPLICATION INFO.:	US 2000-491017		20000125 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1998-73666, filed on 6 May 1998, now patented, Pat. No. US 6060560		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-47551P	19970523 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Buttner, David J.	
NUMBER OF CLAIMS:	6	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 1 Drawing Page(s)	
LINE COUNT:	1852	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention provides a process for producing a polyurethane resin from a hydrogenated polydiene diol or polyol having a functional group equivalent weight of 750 to 10000, a reinforcing agent having a functional group equivalent weight of 30 to 200, and a polyisocyanate. In a preferred embodiment, the process comprises reacting at least one of a polydiene diol or a reinforcing diol or triol with the polyisocyanate at an NCO/functional group molar ratio of 0.4 to 0.7 or a functional group/NCO molar ratio of 0.25 to 0.55 to form a stable reaction product, adding to this reaction product an additional sufficient amount of the polyisocyanate and, as needed, one or both of the polydiene diol or the reinforcing agent to bring the NCO/functional group ratio up to from 0.9 to 1.1 and to achieve a polydiene diol content of 35 to 80%w (on solids basis) and a reinforcing agent content of 2 to 17%w (on solids basis), and reacting this final mixture to form a crosslinked polyurethane product. This process can also be carried out at an OH/NCO ratio of 0.9 to 1.1 using a blocked polyisocyanate wherein the intermediate reaction product is a stable polyurethane resin.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 8 OF 49 USPATFULL on STN

ACCESSION NUMBER: 2000:57854 USPATFULL
TITLE: Polyurethane compositions made from hydroxy-terminated
polydiene polymers
INVENTOR(S): St. Clair, David John, Houston, TX, United States
PATENT ASSIGNEE(S): Shell Oil Company, Houston, TX, United States (U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6060560		20000509
APPLICATION INFO.:	US 1998-73666		19980506 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-47551P	19970523 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Buttner, David	
LEGAL REPRESENTATIVE:	Haas, Donald F.	
NUMBER OF CLAIMS:	27	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 1 Drawing Page(s)	
LINE COUNT:	2129	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention provides a process for producing a polyurethane resin from a hydrogenated polydiene diol or polyol having a functional group equivalent weight of 750 to 10000, a reinforcing agent having a functional group equivalent weight of 30 to 200, and a polyisocyanate. In a preferred embodiment, the process comprises reacting at least one of a polydiene diol or a reinforcing diol or triol with the polyisocyanate at an NCO/functional group molar ratio of 0.4 to 0.7 or a functional group/NCO molar ratio of 0.25 to 0.55 to form a stable reaction product, adding to this reaction product an additional sufficient amount of the polyisocyanate and, as needed, one or both of the polydiene diol or the reinforcing agent to bring the NCO/functional group ratio up to from 0.9 to 1.1 and to achieve a polydiene diol content of 35 to 80% w (on solids basis) and a reinforcing agent content of 2 to 17% w (on solids basis), and reacting this final mixture to form a crosslinked polyurethane product. This process can also be carried out at an OH/NCO ratio of 0.9 to 1.1 using a blocked polyisocyanate wherein the intermediate reaction product is a stable polyurethane resin.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 9 OF 49 USPATFULL on STN

ACCESSION NUMBER: 1999:132898 USPATFULL
TITLE: Resilient polyurethane foams of polydiene diols and oil
INVENTOR(S): St. Clair, David John, Houston, TX, United States
Hernandez, Hector, Houston, TX, United States
PATENT ASSIGNEE(S): Shell Oil Company, Houston, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5973016		19991026
APPLICATION INFO.:	US 1998-81558		19980519 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-47521P	19970523 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Gorr, Rachel	
LEGAL REPRESENTATIVE:	Steinberg, Beverlee G.	
NUMBER OF CLAIMS:	16	
EXEMPLARY CLAIM:	1	
LINE COUNT:	404	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB There is provided a high resilience polyurethane foam produced from a

polydiene diol having a number average molecular weight from 1,000 to 20,000 and a functionality of from 1.6 to 2, an aromatic polyisocyanate, and oil. The polydiene diol foams have excellent processability, producing high resilience foams having small cell size and uniform cell size distributions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 10 OF 49 USPATFULL on STN

ACCESSION NUMBER: 1999:78786 USPATFULL
TITLE: Weatherable resilient polyurethane foams
INVENTOR(S): St. Clair, David John, Houston, TX, United States
Hernandez, Hector, Houston, TX, United States
PATENT ASSIGNEE(S): Shell Oil Company, Houston, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5922781		19990713
APPLICATION INFO.:	US 1998-81559		19980519 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-47520P	19970523 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Foelak, Morton	
LEGAL REPRESENTATIVE:	Steinberg, Beverlee G.	
NUMBER OF CLAIMS:	14	
EXEMPLARY CLAIM:	1	
LINE COUNT:	499	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB There is provided a weatherable polyurethane foam produced from a polydiene diol having a number average molecular weight from 1,000 to 20,000 and a functionality of from 1.6 to 2, an aliphatic or cycloaliphatic polyisocyanate, and a stabilizer. The polydiene diol foams have excellent stability under sunlight exposure.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 11 OF 49 USPATFULL on STN

ACCESSION NUMBER: 1999:24702 USPATFULL
TITLE: Flexible foams and flexible molded foams based on allophanate-modified diphenylmethane diisocyanates and processes for the production of these foams
INVENTOR(S): Milliren, Charles M., Coraopolis, PA, United States
Madan, Sanjeev, Coraopolis, PA, United States
Slack, William E., Moundsville, WV, United States
Zibert, Ronald, Burgettstown, PA, United States
Riccitelli, Richard A., Monaca, PA, United States
Miller, William E., St. Clairsville, OH, United States
PATENT ASSIGNEE(S): Bayer Corporation, Pittsburgh, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5874485		19990223

APPLICATION INFO.: US 1997-966818 19971110 (8)
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Gorr, Rachel
LEGAL REPRESENTATIVE: Gil, Joseph C., Brown, N. Denise
NUMBER OF CLAIMS: 26
EXEMPLARY CLAIM: 1
LINE COUNT: 1332

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to flexible foams and flexible molded foams prepared from an isocyanate component comprising an allophanate-modified diphenylmethane diisocyanate. The present invention also relates to processes for the production of these flexible foams and flexible molded foams.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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L15 ANSWER 12 OF 49 USPATFULL on STN

ACCESSION NUMBER: 1998:157407 USPATFULL
TITLE: Resilient polyurethane foams of polydiene diols and tackifying resin
INVENTOR(S): St. Clair, David John, Houston, TX, United States
Hernandez, Hector, Houston, TX, United States
PATENT ASSIGNEE(S): Shell Oil Company, Houston, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5849806		19981215
APPLICATION INFO.:	US 1998-80997		19980519

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-47522P	19970523 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Foelak, Morton	
LEGAL REPRESENTATIVE:	Steinberg, Beverlee G.	
NUMBER OF CLAIMS:	40	
EXEMPLARY CLAIM:	1	
LINE COUNT:	533	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB There is provided a high resilience polyurethane foam adhesive produced from a polydiene diol having a number average molecular weight from 1,000 to 20,000 and a functionality of from 1.6 to 2, an aromatic polyisocyanate, a tackifying resin and oil. In another embodiment, there is provided a polyurethane foam adhesive produced from a blend of a polydiene diol and a polydiene mono-ol, an aromatic polyisocyanate, and

a tackifying resin.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 13 OF 49 USPATFULL on STN

ACCESSION NUMBER: 1998:72697 USPATFULL

TITLE: Method of producing gaskets from polyurethane/urea compositions and gaskets produced therefrom

INVENTOR(S): Cageao, Ronald A., Beaver, PA, United States
Meltzer, A. Donald, Brecksville, OH, United States
Suddaby, Brian R., Pittsburgh, PA, United States

PATENT ASSIGNEE(S): Bayer Corporation, Pittsburgh, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5770674		19980623
APPLICATION INFO.:	US 1996-744037		19961105 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1995-484402, filed on 7 Jun 1995, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Sergent, Rabon		
LEGAL REPRESENTATIVE:	Gil, Joseph C., Brown, N. Denise		
NUMBER OF CLAIMS:	15		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	5 Drawing Figure(s); 4 Drawing Page(s)		
LINE COUNT:	1633		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to a method of forming a gasket around a substrate from a novel polyurethane/urea composition via the RIM process. Window gaskets may be produced by this method. These novel polyurethane/urea compositions comprise the reaction product of a (cyclo)aliphatic polyisocyanate having a viscosity of less than about 25,000 mPa.multidot.s at 25° C. and a NCO functionality of 2.0 to 4.0 with an isocyanate-reactive component comprising b1) a relatively high molecular weight organic compound containing hydroxyl groups, amine groups, or mixtures thereof; and b2) a low molecular weight chain extender selected from the group consisting of diols, primary amines, secondary amines, aminoalcohols, and mixtures thereof; in the presence of a catalyst. The isocyanate and isocyanate-reactive components are selected such that the crosslinking density of the resultant polyurethane/urea composition is at least 0.3 moles/kg. It is also possible that the isocyanate-reactive component comprises b3) a low molecular weight chain terminator, and/or b4) a low molecular weight crosslinking agent. When either or both of these components are included in the isocyanate-reactive component, A, b1), b2), and/or b3) and/or b4) must be selected such that the crosslinking density of the resultant polyurethane/urea composition is at least 0.3 moles/kg.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 14 OF 49 USPATFULL on STN

ACCESSION NUMBER: 1998:7110 USPATFULL

TITLE: Polydiene diols in resilient polyurethane foams

INVENTOR(S): Hernandez, Hector, Houston, TX, United States

PATENT ASSIGNEE(S): Shell Oil Company, Houston, TX, United States (U.S.

corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5710192		19980120
APPLICATION INFO.:	US 1996-724940		19961002 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Cooney, Jr., John M.		
LEGAL REPRESENTATIVE:	Steinberg, Beverlee G.		
NUMBER OF CLAIMS:	20		
EXEMPLARY CLAIM:	1		
LINE COUNT:	477		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Polyurethane foams having high resilience, significantly improved humid aging, excellent tear strength, and light color are formed from a polydiene diol, preferably a hydrogenated polybutadiene diol, having a hydroxyl functionality from 1.6 to 2.0 and from an aromatic polyisocyanate having an isocyanate functionality of from 1.8 to 2.5. The polydiene diol is preferably blended with foaming agents prior to addition of the highly reactive polyisocyanate.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 15 OF 49 USPATFULL on STN

ACCESSION NUMBER:	96:116459 USPATFULL
TITLE:	Polyisocyanate based upon 4,4'-and 2,4'-diphenylmethane diisocyanates and use thereof in a rim process
INVENTOR(S):	Hurley, Michael F., Oakdale, PA, United States Eiben, Robert G., Bridgeville, PA, United States
PATENT ASSIGNEE(S):	Bayer Corporation, Pittsburgh, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5585452		19961217
APPLICATION INFO.:	US 1995-469963		19950606 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1993-144458, filed on 28 Oct 1993, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Seidleck, James J.		
ASSISTANT EXAMINER:	Truong, Duc		
LEGAL REPRESENTATIVE:	Gil, Joseph C., Brown, N. Denise		
NUMBER OF CLAIMS:	10		
EXEMPLARY CLAIM:	1		
LINE COUNT:	949		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A novel polyisocyanate which is liquid and room temperature stable and has an isocyanate group content of from 10 to 30% by weight is prepared by reacting:

a) an isocyanate mixture of 4,4'-diphenylmethane diisocyanate, 2,4'-diphenylmethane diisocyanate, and an amount of an isocyanate based upon diphenylmethane diisocyanate having an isocyanate functionality of more than 2, such that the total isocyanate mixture a) has an average isocyanate functionality of from 2.02 to 2.50, and

- b) one or more polyols selected from the group consisting of
- 1) diols having molecular weights of from 1000 to 5000,
 - 2) triols having molecular weights of from 1000 to 6000, and
 - 3) mixtures thereof.

When used in a RIM process, parts are produced which have excellent low temperature impact properties.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 16 OF 49 USPATFULL on STN

ACCESSION NUMBER: 96:92149 USPATFULL
 TITLE: Rim process utilizing isocyanates based upon 2,4'- and 4,4'-diphenylmethane diisocyanate
 INVENTOR(S): Hurley, Michael F., Oakdale, PA, United States
 Eiben, Robert G., Bridgeville, PA, United States
 PATENT ASSIGNEE(S): Bayer Corporation, Pittsburgh, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
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PATENT INFORMATION:	US 5563232		19961008
APPLICATION INFO.:	US 1995-385017		19950207 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1993-144916, filed on 28 Oct 1993, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Seidleck, James J.		
ASSISTANT EXAMINER:	Sergent, Rabon		
LEGAL REPRESENTATIVE:	Gil, Joseph C., Brown, N. Denise		
NUMBER OF CLAIMS:	3		
EXEMPLARY CLAIM:	1		
LINE COUNT:	725		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A RIM process utilizing a reaction product of an MDI containing from 6 to 50% by weight of the 2,4'-isomer and a polypropylene glycol as the isocyanate reactant results in a molded product having excellent low temperature impact properties.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 17 OF 49 USPATFULL on STN

ACCESSION NUMBER: 96:36599 USPATFULL
 TITLE: Hydroxy and amino functional pyrrolizidine catalyst compositions for the production of polyurethanes
 INVENTOR(S): Carr, Richard V. C., Allentown, PA, United States
 Lassila, Kevin R., Allentown, PA, United States
 Listemann, Mark L., Whitehall, PA, United States
 Mercado, Lisa A., Pennsburg, PA, United States
 Minnich, Kristen E., Allentown, PA, United States
 Savoca, Ann C. L., Bernville, PA, United States
 Wressell, Amy L., Allentown, PA, United States
 PATENT ASSIGNEE(S): Air Products and Chemicals, Inc., Allentown, PA, United States

States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5512603		19960430
APPLICATION INFO.:	US 1994-199396		19940222 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Seidleck, James J.		
ASSISTANT EXAMINER:	Sergent, Rabon		
LEGAL REPRESENTATIVE:	Leach, Michael, Marsh, William F.		
NUMBER OF CLAIMS:	20		
EXEMPLARY CLAIM:	1		
LINE COUNT:	500		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for preparing a polyurethane foam which comprises reacting an organic polyisocyanate and a polyol in the presence of a blowing agent, cell stabilizer and a catalyst composition consisting essentially of a pyrrolizidine of the formula: ##STR1## where R.sub.1 and R.sub.2 independently are --H, --OH, ##STR2## or --NR.sub.4 R.sub.5, R.sub.3 is hydrogen, a C.sub.1 -C.sub.12 alkyl, C.sub.5 -C.sub.6 cycloalkyl, C.sub.6 -C.sub.10 aryl, or C.sub.7 -C.sub.11 arylalkyl group, and

R.sub.4 and R.sub.5 independently represent H, a C.sub.1 -C.sub.12 alkyl group, C.sub.5 -C.sub.10 cycloalkyl, C.sub.6 -C.sub.10 aryl, or C.sub.7 -C.sub.11 arylalkyl group, provided that at least R.sub.1 or R.sub.2 is not hydrogen.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 18 OF 49 USPATFULL on STN

ACCESSION NUMBER: 94:99905 USPATFULL

TITLE: Preparation of compact or cellular elastomers containing urethane and urea groups, and moldings produced therefrom

INVENTOR(S): Hinz, Werner, Frankenthal, Germany, Federal Republic of
Maletzko, Christian, Mannheim, Germany, Federal Republic of
Becker, Johannes, Ludwigshafen, Germany, Federal Republic of

PATENT ASSIGNEE(S): Matzke, Guenter, Ketsch, Germany, Federal Republic of
BASF Aktiengesellschaft, Ludwigshafen, Germany, Federal Republic of (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5364852		19941115
APPLICATION INFO.:	US 1993-53759		19930429 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1992-4218791	19920606
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Seidleck, James J.	
ASSISTANT EXAMINER:	Critharis, Mary	
LEGAL REPRESENTATIVE:	Golota, Mary E.	

NUMBER OF CLAIMS: 11
EXEMPLARY CLAIM: 1
LINE COUNT: 1043

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compact or cellular elastomers containing urethane and urea groups are prepared by reacting

- a) at least one organic and/or modified organic polyisocyanate
- b) at least one N-propoxylated polyoxyalkylene-polyamine containing at least 50% of secondary amino groups or a mixture of said N-propoxylated polyoxyalkylene-polyamines and polyoxyalkylene-polyamines containing 2 to 4 primary amino groups and having a molecular weight of from 1000 to 8000,
- c) at least one alkyl-substituted aromatic polyamine having a molecular weight up to 500, in the presence or absence of
- d) catalysts and, if desired,
- e) blowing agents,
- f) auxiliaries and/or
- g) additives.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 19 OF 49 USPATFULL on STN

ACCESSION NUMBER: 94:84285 USPATFULL

TITLE: Polyisocyanate based upon 4,4'- and 2,4'-diphenylmethane diisocyanates and use thereof in a rim process

INVENTOR(S): Stepan, David D., Gibsonia, PA, United States
Slack, William E., Moundsville, WV, United States
Beckley, Charles G., Moundsville, WV, United States

PATENT ASSIGNEE(S): Miles Inc., Pittsburgh, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5350778		19940927
APPLICATION INFO.:	US 1993-144269		19931028 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Welsh, Maurice J.		
LEGAL REPRESENTATIVE:	Gil, Joseph C., Brown, N. Denise		
NUMBER OF CLAIMS:	4		
EXEMPLARY CLAIM:	1		
LINE COUNT:	954		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel liquid, room temperature polyisocyanate having isocyanate group contents of from 6 to 31% by weight, are prepared by reacting:

- a) a methylene-bis(phenyl isocyanate) containing
- 1) from 65 to 90% by weight of the 4,4'-isomer,

- 2) from 10 to 35% by weigh of the 2,4'-isomer, and
- 3) no more than 2% by weight of the 2,2'-isomer, with the percents of components a)1), a)2), and a)3) totalling 100%, and
- b) a mixture of:
 - 1) one or more organic compounds having molecular weights of from 400 to 6000 and containing from 2 to 8 isocyanate reactive groups, and
 - 2) one or more organic diols having molecular weights of from 60 to 200, excluding tripropylene glycol, the weight ratio of component b)1) to b)2) being from 150:1 to 5:1.

When used in a RIM process, molded products are obtained which have improved tear strength, improved flexural modulus, improved impact resistance, and improved tensile strength.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 20 OF 49 USPATFULL on STN
 ACCESSION NUMBER: 93:69964 USPATFULL
 TITLE: Cyclohexanedimethanoladipate based prepolymers and reaction injection molded products made therefrom
 INVENTOR(S): Mafoti, Robson, Pittsburgh, PA, United States
 PATENT ASSIGNEE(S): Miles Inc., Pittsburgh, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5239038		19930824
APPLICATION INFO.:	US 1989-442805		19891129 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Kight, III, John		
ASSISTANT EXAMINER:	Truong, Duc		
LEGAL REPRESENTATIVE:	Gil, Joseph C., Akorli, Godfried R.		
NUMBER OF CLAIMS:	7		
EXEMPLARY CLAIM:	1		
LINE COUNT:	600		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to a polyisocyanate prepolymer prepared by reacting an isocyanate based on 4,4-methylenebis(phenyl isocyanate) and a polyester polyol by reacting 1,4-cyclohexanedimethanol and adipic acid. The invention is also directed to a RIM process using such prepolymers.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 21 OF 49 USPATFULL on STN
 ACCESSION NUMBER: 93:48632 USPATFULL
 TITLE: Polyurea rim systems
 INVENTOR(S): Slack, William E., Moundsville, WV, United States
 Kratz, Mark R., Hannibal, OH, United States
 PATENT ASSIGNEE(S): Miles Inc., Pittsburgh, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5219973		19930615
APPLICATION INFO.:	US 1990-623469		19901207 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Kight, III, John		
ASSISTANT EXAMINER:	Truong, Duc		
LEGAL REPRESENTATIVE:	Gil, Joseph C., Brown, N. Denise		
NUMBER OF CLAIMS:	14		
EXEMPLARY CLAIM:	1		
LINE COUNT:	741		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to a RIM process and an isocyanate reactive composition for use therein. The isocyanate composition includes an amine terminated chain extender and an aromatic amine terminated polyether of the formula: ##STR1## wherein R is an n-valent group obtained by the removal of hydroxyl groups from an n-hydroxy group containing polyhydroxyl compound having a molecular weight of from about 300 to about 12,000,

R.sub.1 represents hydrogen or an inert substituent,

R.sub.2 represents hydrogen, an amine group, or an inert substituent, and

n represents an integer from 2 to 4.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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L15 ANSWER 22 OF 49 USPATFULL on STN

ACCESSION NUMBER: 92:78648 USPATFULL
 TITLE: Polyurea rim systems having improved flow properties and containing an organic cyclic carbonate
 INVENTOR(S): Nodelman, Neil H., Pittsburgh, PA, United States
 PATENT ASSIGNEE(S): Miles Inc., Pittsburgh, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5149458		19920922
APPLICATION INFO.:	US 1991-686555		19910417 (7)
RELATED APPLN. INFO.:	Division of Ser. No. US 1990-546078, filed on 29 Jun 1990, now patented, Pat. No. US 5028635 which is a continuation-in-part of Ser. No. US 1990-463762, filed on 12 Jan 1990, now abandoned which is a continuation of Ser. No. US 1989-346186, filed on 4 May 1989, now abandoned which is a continuation-in-part of Ser. No. US 1988-212751, filed on 28 Jun 1988, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Bleutge, John C.		
ASSISTANT EXAMINER:	Krass, Frederick		

LEGAL REPRESENTATIVE: Gil, Joseph C.
 NUMBER OF CLAIMS: 3
 EXEMPLARY CLAIM: 1
 LINE COUNT: 623

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to a RIM process and an isocyanate-reactive mixture useful therein. The mixture comprises

i) a polyether having at least two isocyanate-reactive groups and a molecular weight of from 1800 to 12,000 in which at least 50% of the isocyanate-reactive groups are primary and/or secondary amine groups,

ii) an amine-terminated chain extender, and

iii) from 2 to 20 parts by weight per 100 parts by weight of components b) and c) of propylene carbonate.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 23 OF 49 USPATFULL on STN

ACCESSION NUMBER: 92:29727 USPATFULL

TITLE: Combustion-modified polyurethane foam

INVENTOR(S): Turner, Robert B., Lake Jackson, TX, United States
 Priester, Jr., Ralph D., Lake Jackson, TX, United States

PATENT ASSIGNEE(S): Burkes, Stephen R., Lake Jackson, TX, United States
 The Dow Chemical Company, Midland, MI, United States
 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5104910		19920414
APPLICATION INFO.:	US 1991-637105		19910103 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Welsh, Maurice J.		
LEGAL REPRESENTATIVE:	Galbraith, Ann K.		
NUMBER OF CLAIMS:	18		
EXEMPLARY CLAIM:	1		
LINE COUNT:	655		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Described herein is an isocyanate-reactive compound containing at least one linkage of the formula:

--X--X--

wherein X is independently in each occurrence --NR--, --S--, or --O--; R is independently in each occurrence hydrogen, C.sub.1-10 alkyl, aryl, or arylene; and at least one N, S, or O atom of the above formula is bonded to an aryl or arylene group. Also disclosed are isocyanate-reactive compositions containing the above compound and flexible polyurethane foams prepared therefrom.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 24 OF 49 USPATFULL on STN

ACCESSION NUMBER: 92:23268 USPATFULL

TITLE: Isocyanate terminated prepolymers and the use thereof
in a rim process
INVENTOR(S): Mafoti, Robson, Pittsburgh, PA, United States
PATENT ASSIGNEE(S): Mobay Corporation, Pittsburgh, PA, United States (U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5098984		19920324
APPLICATION INFO.:	US 1990-539100		19900615 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Kight, III, John		
ASSISTANT EXAMINER:	Cooney, Jr., John M.		
LEGAL REPRESENTATIVE:	Gil, Joseph C., Akorli, Godfried R.		
NUMBER OF CLAIMS:	5		
EXEMPLARY CLAIM:	1		
LINE COUNT:	756		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to a novel prepolymer and the use thereof in a RIM process. The prepolymer is an isocyanate terminated prepolymer having an isocyanate group content of from about 10 to about 26% by weight, and being prepared by a process comprising:

(a) reacting a C.sub.1 to C.sub.5 alkyl acetoacetate, with a polyol having a molecular weight of from about 500 to about 6000, and a hydroxyl functionality of from 2 to 4, and

(b) reacting the resultant product with an organic di- and/or polyisocyanate.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 25 OF 49 USPATFULL on STN

ACCESSION NUMBER: 91:52574 USPATFULL
TITLE: Polyurea-cyclic carbonate RIM systems having improved flow properties
INVENTOR(S): Nodelman, Neil H., Pittsburgh, PA, United States
PATENT ASSIGNEE(S): Mobay Corporation, Pittsburgh, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5028635		19910702
APPLICATION INFO.:	US 1990-546078		19900629 (7)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1990-463762, filed on 12 Jan 1990, now abandoned which is a continuation of Ser. No. US 1989-346186, filed on 4 May 1989, now abandoned which is a continuation-in-part of Ser. No. US 1988-212751, filed on 28 Jun 1988, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Kight, III, John		
ASSISTANT EXAMINER:	Krass, Frederick		
LEGAL REPRESENTATIVE:	Gil, Joseph C.		
NUMBER OF CLAIMS:	3		
EXEMPLARY CLAIM:	1		

LINE COUNT: 633

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to a RIM process and an isocyanate-reactive mixture useful therein. The mixture comprises

i) a polyether having at least two isocyanate-reactive groups and a molecular weight of from 1800 to 12,000 in which at least 50% of the isocyanate-reactive groups are primary and/or secondary amine groups,

ii) an amine-terminated chain extender, and

iii) from 2 to 20 parts by weight per 100 parts by weight of components b) and c) of propylene carbonate.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 26 OF 49 USPATFULL on STN

ACCESSION NUMBER: 89:87579 USPATFULL

TITLE: Isocyanate reactive mixture and the use thereof in the manufacture of flexible polyurethane foams

INVENTOR(S): Milliren, Charles M., Coraopolis, PA, United States

PATENT ASSIGNEE(S): Mobay Corporation, Pittsburgh, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4876292		19891024
APPLICATION INFO.:	US 1988-254326		19881006 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Welsh, Maurice J.		
ASSISTANT EXAMINER:	Henderson, L.		
LEGAL REPRESENTATIVE:	Harsh, Gene, Gil, Joseph C.		
NUMBER OF CLAIMS:	8		
EXEMPLARY CLAIM:	1		
LINE COUNT:	523		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to a reactive mixture for use in preparing a flexible polyurethane foam and to the foams produced therefrom. The reactive mixture broadly comprises

(A) from more than 0 up to 3 parts by weight per 100 parts by weight of components (B) and (C) of an amine of the formula:

H.sub.2 N--R--NH.sub.2

where R is a C.sub.4 to C.sub.10 straight or branched alkylene group, or a C.sub.4 to C.sub.15 alicyclic group,

(B) from 0 to 30% by weight of a polyoxyalkylene polyamine having a molecular weight of from about 400 to about 5000 and containing from 2 to 3 primary amino groups, and

(C) from 700 to 100% by weight of one or more polyether polyhydroxyl compounds having hydroxyl functionalities from about 2 to 3 and molecular weights of from about 1000 to about 10,000, the percents of components (B) and (C) totalling 100%.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 27 OF 49 USPTFULL on STN

ACCESSION NUMBER: 89:67507 USPTFULL

TITLE: Novel neopentyladipate based prepolymers and reaction injection molded products made therefrom

INVENTOR(S): Mafoti, Robson, Pittsburgh, PA, United States

Nodelman, Neil H., Pittsburgh, PA, United States

PATENT ASSIGNEE(S): Mobay Corporation, Pittsburgh, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4857561		19890815
APPLICATION INFO.:	US 1988-238436		19880830 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Welsh, Maurice J.		
LEGAL REPRESENTATIVE:	Harsh, Gene, Gil, Joseph C.		
NUMBER OF CLAIMS:	7		
EXEMPLARY CLAIM:	1		
LINE COUNT:	666		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to a polyisocyanate comprising the reaction product of

(a) an isocyanate selected from the group consisting of methylenebis(phenylisocyanate), polymethylenepoly(phenylisocyanate), and mixtures thereof, and

(b) a polyester polyol having a hydroxyl functionality of from 2 to 3 and a molecular weight of from about 750 to about 3500, said polyester polyol prepared by reacting neopentyl glycol and adipic acid,

the isocyanate group content of said reaction product from about 14% to about 28% by weight. The invention is also directed to a RIM process using such prepolymers.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 28 OF 49 USPTFULL on STN

ACCESSION NUMBER: 88:65673 USPTFULL

TITLE: Process for the production of molded articles, mixtures of isocyanate reactive compounds suitable therefor and the molded articles obtained by the process

INVENTOR(S): Weber, Christian, Leverkusen, Germany, Federal Republic of
Schafer, Hermann, Leverkusen, Germany, Federal Republic of

PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Leverkusen, Germany, Federal Republic of (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4777187		19881011
APPLICATION INFO.:	US 1988-149771		19880129 (7)

	NUMBER	DATE
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PRIORITY INFORMATION:	DE 1987-3703739	19870207
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Welsh, Maurice J.	
LEGAL REPRESENTATIVE:	Harsh, Gene, Gil, Joseph C., Roy, Thomas W.	
NUMBER OF CLAIMS:	21	
EXEMPLARY CLAIM:	1	
LINE COUNT:	914	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to a process for the production of polyurethane or polyurea elastomeric molded articles according to the reaction injection molding process by reacting a polyisocyanate, a high molecular weight isocyanate reactive component and optionally a diamine chain extender, wherein the improvement is based on the use of the reaction product of a polyepoxide containing at least two epoxide groups with at least one mol of an aromatic diamine per epoxide group wherein the polyepoxide is present in an amount sufficient to provide about 0.5 to 25% by weight of the polyepoxide based on the weight of all the isocyanate reactive components. The present invention is also directed to the isocyanate reactive components for use in this process and to the molded articles produced in accordance with this process.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 29 OF 49 USPATFULL on STN

ACCESSION NUMBER:	88:62518 USPATFULL
TITLE:	Process for the production of elastic molded articles
INVENTOR(S):	Weber, Christian, Leverkusen, Germany, Federal Republic of Wirtz, Hans, Leverkusen, Germany, Federal Republic of Seel, Klaus, Cologne, Germany, Federal Republic of
PATENT ASSIGNEE(S):	Bayer Aktiengesellschaft, Leverkusen, Germany, Federal Republic of (non-U.S. corporation)

	NUMBER	KIND	DATE
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PATENT INFORMATION:	US 4774264		19880927
APPLICATION INFO.:	US 1986-853520		19860418 (6)
RELATED APPLN. INFO.:	Division of Ser. No. US 1982-443414, filed on 22 Nov 1982		

	NUMBER	DATE
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PRIORITY INFORMATION:	DE 1981-3147736	19811202
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Welsh, Maurice J.	
LEGAL REPRESENTATIVE:	Harsh, Gene, Gil, Joseph C., Whalen, Lyndanne M.	
NUMBER OF CLAIMS:	15	
EXEMPLARY CLAIM:	1	
LINE COUNT:	703	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Elastic molded articles having a closed surface layer are made from polyurea elastomers by the reaction injection molding technique. These

polyurea elastomers are prepared from a polyisocyanate in which all of the isocyanate groups are aromatically bound, a polyether and a diamine. The polyether has at least two isocyanate-reactive groups and a molecular weight from 1800 to 12,000. At least 50% of the isocyanate-reactive groups in the polyether are primary and/or secondary amino groups. The diamine has a molecular weight from 108 to 400 and primary and/or secondary aromatically bound amino groups. Known auxiliary agents and additives may also be employed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 30 OF 49 USPATFULL on STN

ACCESSION NUMBER: 88:62517 USPATFULL
TITLE: Process for the production of elastic molded articles
INVENTOR(S): Weber, Christian, Leverkusen, Germany, Federal Republic of
Wirtz, Hans, Leverkusen, Germany, Federal Republic of
Seel, Klaus, Cologne, Germany, Federal Republic of
PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Leverkusen, Germany, Federal Republic of (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4774263		19880927
APPLICATION INFO.:	US 1982-443414		19821122 (6)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1981-3147736	19811202
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Welsh, Maurice J.	
LEGAL REPRESENTATIVE:	Harsh, Gene, Gil, Joseph C., Whalen, Lyndanne M.	
NUMBER OF CLAIMS:	14	
EXEMPLARY CLAIM:	1	
LINE COUNT:	719	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Elastic molded articles having a closed surface layer are made from polyurea elastomers by the reaction injection molding technique. These polyurea elastomers are prepared from a polyisocyanate in which all of the isocyanate groups are aromatically bound, a polyether and a diamine. The polyether has at least two isocyanate-reactive groups and a molecular weight from 1800 to 12,000. At least 50% of the isocyanate-reactive groups in the polyether are primary and/or secondary amino groups. The diamine has a molecular weight from 108 to 400 and primary and/or secondary aromatically bound amino groups. Known auxiliary agents and additives may also be employed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 31 OF 49 USPATFULL on STN

ACCESSION NUMBER: 87:13182 USPATFULL
TITLE: Process for the production of microcellular or foamed moldings and compounds containing isocyanate-reactive groups suitable for carrying out this process
INVENTOR(S): Rasshofer, Werner, Cologne, Germany, Federal Republic of

Meiners, Hans-Joachim, Leverkusen, Germany, Federal Republic of
Seel, Klaus, Cologne, Germany, Federal Republic of
Wussow, Hans-Georg, Duesseldorf, Germany, Federal Republic of
PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Leverkusen, Germany, Federal Republic of (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4645630		19870224
APPLICATION INFO.:	US 1984-645734		19840830 (6)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1983-3333464	19830916
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Anderson, Philip	
LEGAL REPRESENTATIVE:	Harsh, Gene, Gil, Joseph C., Roy, Thomas W.	
NUMBER OF CLAIMS:	9	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1141	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a process for the production of polyurethane-urea or polyurea-based microcellular of foam moldings by reacting a polyisocyanate component containing aromatically bound isocyanate groups with an isocyanate-reactive component containing at least one compound which has at least three aliphatic ether groups and aliphatically bound isocyanate-reactive groups and wherein a portion of the aliphatically bound-reactive groups are amino groups which have been converted to ammonium carbamate, carbonate or bicarbonate groups.

The present invention also relates to the compounds containing aliphatic ether groups and ammonium carbamate, carbonate or bicarbonate groups, optionally in admixture with compounds containing unmodified amino groups or other known isocyanate-reactive compounds.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 32 OF 49 USPATFULL on STN

ACCESSION NUMBER: 85:8920 USPATFULL

TITLE: Process for the production of microcellular moldings from diisocyanate and compounds containing groups obtained by reacting amino groups with carbon dioxide

INVENTOR(S): Meiners, Walter, Cologne, Germany, Federal Republic of
Meiners, Hans-Joachim, Leverkusen, Germany, Federal Republic of
Seel, Klaus, Cologne, Germany, Federal Republic of
Reichmann, Wolfgang, Hilden, Germany, Federal Republic of
Wagner, Kuno, Leverkusen, Germany, Federal Republic of
Findeisen, Kurt, Odenthal, Germany, Federal Republic of
PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Leverkusen, Germany, Federal Republic of (non-U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION:	US 4499038	19850212
APPLICATION INFO.:	US 1983-549040	19831107 (6)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1982-3242925	19821120
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Welsh, Maurice J.	
LEGAL REPRESENTATIVE:	Harsh, Gene, Gil, Joseph C.	
NUMBER OF CLAIMS:	9	
EXEMPLARY CLAIM:	1	
LINE COUNT:	990	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to a process for the production of polyurea-based microcellular moldings comprising reacting

(a) at least one diisocyanate or polyisocyanate containing only aromatically bound isocyanate groups,

(b) at least one compound containing at least two isocyanate-reactive groups, and

(c) optionally the auxiliaries and additives known in polyurethane chemistry, in closed molds, components (a)-(c) being processed as a one-shot system by reaction injection molding, characterized in that component (b) comprises at least one polyether compound (b1) optionally in admixture with other isocyanate-reactive compounds and containing at least 3 aliphatically bonded ether groups and n-aliphatically bonded isocyanate-reactive groups, n standing for an integer or, statistically a fraction of from 2-4

(i) at least (100:n) % of the isocyanate-reactive groups present in component (b1) being aliphatically bonded primary and/or secondary amino groups,

(ii) at least 10 equivalent % of said amino groups being present in the form of ammonium carbamate groups having a functionality of two in the isocyanate addition reaction, of the type obtained by reacting aliphatically bonded, primary or secondary amino groups with carbon dioxide,

(iii) the unmodified compounds containing at least 3 ether groups having a molecular weight of from 200 to 10,000 and

(iv) at least 0,2 equivalent % of all isocyanate-reactive groups of the total component (b) being ammonium carbamate groups.

The present invention also relates to said compounds (b) optionally in admixture with the auxiliaries and additives known in polyurethane chemistry.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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L15 ANSWER 33 OF 49 USPATFULL on STN

ACCESSION NUMBER: 84:20236 USPATFULL

TITLE: Process for the production of molded articles

INVENTOR(S): Rasshofer, Werner, Cologne, Germany, Federal Republic
of
Schafer, Hermann, Leverkusen, Germany, Federal Republic
of
Paul, Reiner, Muelheim-Ruhr, Germany, Federal Republic
of
Beuth, Josef, Frechen, Germany, Federal Republic of
PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Leverkusen, Germany, Federal
Republic of (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4442236		19840410
APPLICATION INFO.:	US 1983-522276		19830811 (6)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1982-3231399	19820824
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Cockeram, H. S.	
LEGAL REPRESENTATIVE:	Harsh, Gene, Gil, Joseph C.	
NUMBER OF CLAIMS:	13	
EXEMPLARY CLAIM:	1	
LINE COUNT:	607	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process for the production of optionally cellular molded articles with a smooth outer skin and improved surface characteristics by the reaction, inside a closed mold, of a mixture of one or more organic polyisocyanates, one or more compounds having molecular weights of from 400 to 12,000, which contain at least two isocyanate-reactive groups, chain-linking and/or chain-extending agents, and optionally, known auxiliary agents and additives used in polyurethane chemistry, characterized in that before the reaction, surface-improving additives comprising one or more polymers or copolymers of one or more olefinically-unsaturated monomers, which polymers or copolymers have molecular weights of from 200 to 50,000, are liquid at room temperature, soluble in the reaction mixture, and inert toward isocyanate groups and at least one metal salt of a monocarboxylic acid having at least 8 carbon atoms, are incorporated into the reaction mixture.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 34 OF 49 USPATFULL on STN

ACCESSION NUMBER: 81:5293 USPATFULL

TITLE: Alkoxyated formose polyols and their use in polyurethane plastics

INVENTOR(S): Wagner, Kuno, Leverkusen, Germany, Federal Republic of
PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Leverkusen, Germany, Federal
Republic of (non-U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION: US 4247654 19810127
 APPLICATION INFO.: US 1979-15082 19790226 (6)
 RELATED APPLN. INFO.: Continuation of Ser. No. US 1977-829170, filed on 30
 Aug 1977, now abandoned

	NUMBER	DATE
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PRIORITY INFORMATION:	DE 1976-2639083	19760831
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Cockeram, H. S.	
LEGAL REPRESENTATIVE:	Harsh, Gene, Gil, Joseph C.	
NUMBER OF CLAIMS:	10	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Figure(s); 1 Drawing Page(s)	
LINE COUNT:	2116	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention is directed to a process for the production of polyether polyols having an average molecular weight of from 200 to 10,000 and an average hydroxyl functionality of from 2.0 to 7.0, comprising reacting one or more alkylene oxides, optionally successively, with a mixture of polyhydric alcohols which has been produced by reduction of the condensation products from the condensation of formaldehyde hydrate. The invention is also directed to the process for the production of polyether polyols characterized in that the mixture of polyhydric alcohols is mixed with dihydric and/or trihydric alcohols and/or monoamines or polyamines prior to alkoxylation. Finally, the invention is directed to the use of the alkoxyated mixtures as the isocyanate-reactive component in the production of optionally cellular polyurethane plastics.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 35 OF 49 USPATFULL on STN

ACCESSION NUMBER: 80:25784 USPATFULL
 TITLE: Polyurethane foams and elastomers prepared from low molecular weight polyhydroxyl compounds
 INVENTOR(S): Muller, Hanns P., Leverkusen, Germany, Federal Republic of
 Wagner, Kuno, Leverkusen, Germany, Federal Republic of
 PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Leverkusen, Germany, Federal Republic of (non-U.S. corporation)

	NUMBER	KIND	DATE
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PATENT INFORMATION:	US 4205138		19800527
APPLICATION INFO.:	US 1979-38033		19790510 (6)
RELATED APPLN. INFO.:	Division of Ser. No. US 1978-934567, filed on 17 Aug 1978, now patented, Pat. No. US 4156636		

	NUMBER	DATE
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PRIORITY INFORMATION:	DE 1977-2738512	19770826
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Cockeram, H. S.	
LEGAL REPRESENTATIVE:	Harsh, Gene, Gil, Joseph C.	

NUMBER OF CLAIMS: 1
EXEMPLARY CLAIM: 1
LINE COUNT: 890

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to an improved process for the production of a mixture of low molecular weight polyhydric alcohols, hydroxy aldehydes and hydroxy ketones by condensing formaldehyde hydrate in the presence of calcium hydroxide as catalyst and in the presence of compounds capable of enediol formation as co-catalyst. A formaldehyde-containing enediol formation as co-catalyst. A formaldehyde containing solution of the co-catalyst in water and, optionally, low molecular weight monohydric or polyhydric alcohols and/or relatively high molecular weight polyhydroxyl compounds is adjusted to a pH value of from 9 to 12, preferably from 9 to 10, by the addition of calcium hydroxide at a temperature of from 80° to 110° C., preferably from 90° to 105° C., so that condensation of the formaldehyde hydrate is initiated. An aqueous formalin solution and/or paraformaldehyde dispersion containing from 20 to 65%, by weight, of formaldehyde and calcium hydroxide are then introduced in such a quantity that the reaction mixture is maintained at a pH value of from 7.5 to 9.5, preferably from 8 to 9, at a temperature of from 80° to 110° C., preferably from 90° to 105° C. The concentration of formaldehyde is maintained at from 0.5 to 10%, by weight, preferably from 1.2 to 6%, by weight, based on the reaction mixture as a whole, throughout the condensation reaction. Finally, the residual quantity of formaldehyde, amounting to from 0.5 to 10%, by weight, is optionally removed by further condensation at pH values below 7 or by reaction with other compounds that are reactive with formaldehyde hydrate.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 36 OF 49 USPATFULL on STN

ACCESSION NUMBER: 79:52259 USPATFULL
TITLE: Polyurethane chain-extendors
INVENTOR(S): Marquis, Edward T., Austin, TX, United States
Yeahey, Ernest L., Austin, TX, United States
PATENT ASSIGNEE(S): Texaco Development Corp., White Plains, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4180644		19791225
APPLICATION INFO.:	US 1978-929756		19780731 (5)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Welsh, Maurice J.		
LEGAL REPRESENTATIVE:	Ries, Carl G., Whaley, Thomas H., Bailey, James L.		
NUMBER OF CLAIMS:	2		
EXEMPLARY CLAIM:	1		
LINE COUNT:	510		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Covers certain aromatic-amine amides which comprise the reaction product of an alkylene polyoxypropylene diamine, triamine, or tetramine and an isatoic anhydride of the formula: ##STR1## where R" is selected from the group consisting of hydrogen, alkyl, nitro, halo, hydroxy, amino, and cyano, and n is a number of 1-4. Also covers the use of said compounds

as chain-extenders in polyurethane compositions. Such chain-extenders provide for the production of polyurethane elastomers having improved tensile strength, tear strength and elongation properties.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 37 OF 49 USPATFULL on STN

ACCESSION NUMBER: 79:26205 USPATFULL

TITLE: Process for the production of low molecular weight polyhydroxyl compounds

INVENTOR(S): Muller, Hanns P., Leverkusen, Germany, Federal Republic of

PATENT ASSIGNEE(S): Wagner, Kuno, Leverkusen, Germany, Federal Republic of
Bayer Aktiengesellschaft, Leverkusen, Germany, Federal Republic of (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4156636		19790529
APPLICATION INFO.:	US 1978-934567		19780817 (5)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1977-2738512	19770826
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Evans, Joseph E.	
LEGAL REPRESENTATIVE:	Harsh, Gene, Gil, Joseph C.	
NUMBER OF CLAIMS:	11	
EXEMPLARY CLAIM:	1,11	
LINE COUNT:	898	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Low molecular weight polyhydroxyl compounds are made from formaldehyde hydrate by an improved process comprising adjusting the pH of an aqueous solution of formaldehyde and co-catalyst to 9-12 with calcium hydroxide at 80°-110° C. to begin condensation and then adding to this reaction mixture aqueous formalin and/or paraformaldehyde and calcium hydroxide to maintain a pH of 7.5-9.5 and temperature of 80°-110° C.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 38 OF 49 USPATFULL on STN

ACCESSION NUMBER: 78:59947 USPATFULL

TITLE: Catalyst systems containing dimethylamino ether mono-ols for polyurethane foam formation

INVENTOR(S): Sandner, Michael Ray, Chappaqua, NY, United States

Duffy, Robert Donovan, Summersville, WV, United States

PATENT ASSIGNEE(S): Union Carbide Corporation, New York, NY, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4122038		19781024
APPLICATION INFO.:	US 1977-819331		19770727 (5)
RELATED APPLN. INFO.:	Division of Ser. No. US 1975-581745, filed on 29 May 1975, now patented, Pat. No. US 4049931		

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Garvin, Patrick
LEGAL REPRESENTATIVE: Klosty, Marylin
NUMBER OF CLAIMS: 7
EXEMPLARY CLAIM: 1
LINE COUNT: 2964

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Cellular urethane polymers are provided by effecting the reaction of an organic polyol reactant comprising a polyether polyol and an organic polyisocyanate reactant in the presence of a blowing agent and a catalyst system comprising a tertiary-dimethylamino ether mono-ol. In the dimethylamino ether mono-ols employed as catalysts in the practice of the invention, the tertiary-dimethylamino group and the hydroxyl group are positioned beta to a common acyclic ether oxygen atom or to different acyclic ether oxygen atoms which in turn are positioned beta to one another. The said dimethylamino ether mono-ols are versatile, low odor catalysts and are useful in forming cellular urethane polymers ranging from all water-blown flexible polyether foam to all fluorocarbon-blown rigid foam including semi-flexible and high-resilience foam products. Especially preferred for use in the practice of the invention are 2-(2-dimethylaminoethoxy)ethanol and 2-[2-(2-dimethylaminoethoxy)ethoxy]ethanol either as such or in combination with other catalysts including other tertiary-amine components and/or organic compounds of tin. Also provided are blended catalyst systems comprising said dimethylamino ether mono-ols.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 39 OF 49 USPATFULL on STN

ACCESSION NUMBER: 77:51315 USPATFULL

TITLE: Catalyst systems containing dimethylamino ether mono-ols for polyurethane foam formation

INVENTOR(S): Sandner, Michael Ray, Chappaqua, NY, United States
Duffy, Robert Donovan, Summersville, WV, United States

PATENT ASSIGNEE(S): Union Carbide Corporation, New York, NY, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4049931		19770920
APPLICATION INFO.:	US 1975-581745		19750529 (5)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Czaja, Donald E.		
ASSISTANT EXAMINER:	Fletcher, H. H.		
LEGAL REPRESENTATIVE:	Klosty, Marylin		
NUMBER OF CLAIMS:	50		
EXEMPLARY CLAIM:	1		
LINE COUNT:	3171		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Cellular urethane polymers are provided by effecting the reaction of an organic polyol reactant comprising a polyether polyol and an organic polyisocyanate reactant in the presence of a blowing agent and a catalyst system comprising a tertiary-dimethylamino ether mono-ol. In the dimethylamino ether mono-ols employed as catalysts in the practice of the invention, the tertiary-dimethylamino group and the hydroxyl

group are positioned beta to a common acyclic ether oxygen atom or to different acyclic ether oxygen atoms which in turn are positioned beta to one another. The said dimethylamino ether mono-ols are versatile, low odor catalysts and are useful in forming cellular urethane polymers ranging from all water-blown flexible polyether foam to all fluorocarbon-blown rigid foam including semi-flexible and high-resilience foam products. Especially preferred for use in the practice of the invention are 2-(2-dimethylaminoethoxy)ethanol and 2-[2-(2-dimethylaminoethoxy)ethoxy]ethanol either as such or in combination with other catalysts including other tertiary-amine components and/or organic compounds of tin. Also provided are blended catalyst systems comprising said dimethylamino ether mono-ols.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 40 OF 49 USPATFULL on STN

ACCESSION NUMBER: 76:29069 USPATFULL
TITLE: Novel hydrophobic polyurethane foams
INVENTOR(S): Kehr, Clifton L., Silver Spring, MD, United States
Marans, Nelson S., Silver Spring, MD, United States
PATENT ASSIGNEE(S): W. R. Grace & Co., New York, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3959191		19760525
APPLICATION INFO.:	US 1974-537617		19741230 (5)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1973-322666, filed on 11 Jan 1973, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Ivy, C. Warren		
LEGAL REPRESENTATIVE:	Bond, Eugene M.		
NUMBER OF CLAIMS:	8		
EXEMPLARY CLAIM:	1		
LINE COUNT:	790		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention disclosed is for new improved hydrophobic polyurethane foams prepared by reacting a hydrophobic polyisocyanate reactant with large amounts of an aqueous reactant in the presence of an emulsifying agent. The resultant foams may be characterized with a broad spectrum of improved properties including load-bearing characteristics, hydrophobic properties, textural characteristics and the like.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 41 OF 49 USPATOLD on STN

ACCESSION NUMBER: 1974:65637 USPATOLD
TITLE: MONO AND TRIS(AMINO LOWERALKOXY) (ALKYL)
POLYOXYALKYLENE COMPOUNDS AND METHOD OF PREPARATION
INVENTOR(S): POPPELSDORF F
PATENT ASSIGNEE(S): UNION CARBIDE CORPORATION

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3799986	A	19740326
APPLICATION INFO.:	US 1967-689004		19671201

	NUMBER	DATE
PRIORITY INFORMATION:	US 1967-689004	19671208
	US 1961-107060	19610502
	US 1967-688971	19671208
	US 1967-688976	19671208
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	HIGEL, FLOYD D	
LINE COUNT:	1376	

L15 ANSWER 42 OF 49 USPATOLD on STN
 ACCESSION NUMBER: 1972:61906 USPATOLD
 TITLE: DIACID BRIDGED RING COMPOUNDS
 INVENTOR(S): LYNN JOHN W
 HENRY JOSEPH P
 TRECKER DAVID J
 PATENT ASSIGNEE(S): UNION CARBIDE CORPORATION

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3646132	A	19720229
APPLICATION INFO.:	US 1969-846251		19690701

	NUMBER	DATE
PRIORITY INFORMATION:	US 1965-520298	19651209
	US 1969-846251	19690730
	US 1969-846256	19690730
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	WEINBERGER, LORRAINE A	
ASSISTANT EXAMINER:	GLEIMAN, E J	
LINE COUNT:	1678	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L15 ANSWER 43 OF 49 USPATOLD on STN
 ACCESSION NUMBER: 1972:61815 USPATOLD
 TITLE: SYM TRIS (4 PIPERIDYL) CYCLOHEXANES
 INVENTOR(S): UELZMANN HEINZ
 PATENT ASSIGNEE(S): GENCORP INC.

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3646041	A	19720229
APPLICATION INFO.:	US 1970-7310		19700101

	NUMBER	DATE
PRIORITY INFORMATION:	US 1970-7310	19700108
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	JILES, HENRY R	
ASSISTANT EXAMINER:	TODD, G T	
LINE COUNT:	749	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 44 OF 49 USPATOLD on STN
ACCESSION NUMBER: 1971:56250 USPATOLD
TITLE: BETA CYANOALKYL ETHERS OF POLYOXYALKYLENE ADDUCTS OF
MODERATELY HIGH MOLECULAR WEIGHT
INVENTOR(S): POPPELSDORF FEDOR
PATENT ASSIGNEE(S): UNION CARBIDE CORPORATION

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3560549	A	19710202
APPLICATION INFO.:	US 1967-688976		19671201

	NUMBER	DATE
PRIORITY INFORMATION:	US 1961-107060	19610502
	US 1967-688971	19671208
	US 1967-688976	19671208
	US 1967-689004	19671208
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	BRUST, JOSEPH P	
LINE COUNT:	1584	

L15 ANSWER 45 OF 49 USPATOLD on STN
ACCESSION NUMBER: 1970:41512 USPATOLD
TITLE: METHOD FOR MAKING SYM TRIS(4 PYRIDYL) CYCLOHEXANES AND
ALKYL SUBSTITUTED SYM TRIS (4 PYRIDYL) CYCLOHEXANES
INVENTOR(S): UELZMANN HEINZ
PATENT ASSIGNEE(S): GENCORP INC.

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3528988	A	19700915
APPLICATION INFO.:	US 1967-674760		19671001

	NUMBER	DATE
PRIORITY INFORMATION:	US 1967-674760	19671012
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	RANDOLPH, JOHN D	
LINE COUNT:	768	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 46 OF 49 USPATOLD on STN
ACCESSION NUMBER: 1970:4861 USPATOLD
TITLE: NORBORNANE DIISOCYANATES
INVENTOR(S): LYNN JOHN W
HENRY JOSEPH P
TRECKER DAVID J
PATENT ASSIGNEE(S): UNION CARBIDE CORPORATION

NUMBER	KIND	DATE
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PATENT INFORMATION:	US 3492330	A	19700127
APPLICATION INFO.:	US 1966-520298		19660101

	NUMBER	DATE
PRIORITY INFORMATION:	US 1965-520298	19651209
	US 1969-846251	19690730
	US 1969-846256	19690730
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	PARKER, CHARLES B	
LINE COUNT:	1827	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L15 ANSWER 47 OF 49 USPATOLD on STN
ACCESSION NUMBER: 1969:63192 USPATOLD
TITLE: PHOTSENSITIZED CYCLOADDING PROCESS
INVENTOR(S): ARNOLD DONALD R
STEHR CHARLES E
TRECKER DAVID J
PATENT ASSIGNEE(S): UNION CARBIDE CORPORATION

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3483102	A	19691209
APPLICATION INFO.:	US 1964-365527		19640501

	NUMBER	DATE
PRIORITY INFORMATION:	US 1964-365527	19640506
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	WILLIAMS, HOWARD S	
LINE COUNT:	1476	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L15 ANSWER 48 OF 49 USPATOLD on STN
ACCESSION NUMBER: 1966:29480 USPATOLD
TITLE: Preparation of cellular isocyanatepolyamino compound
reaction products
INVENTOR(S): MAXEY EDWIN M
GMITTER GEORGE T

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3256213	A	19660614

	NUMBER	DATE
PRIORITY INFORMATION:	US 1962-198765	19620531
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	BERCOVITZ, LEON L	
LINE COUNT:	710	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 49 OF 49 USPAT2 on STN
ACCESSION NUMBER: 2003:325213 USPAT2
TITLE: High performance RIM elastomers and a process for their
production
INVENTOR(S): Super, Michael S., Oakdale, PA, United States
Steppan, David D., Gibsonia, PA, United States
Slack, William E., Moundsville, WV, United States
Potts, Bruce H., Beaver, PA, United States
Hurley, Michael F., Pittsburgh, PA, United States
PATENT ASSIGNEE(S): Bayer Corporation, Pittsburgh, PA, United States (U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6765080	B2	20040720
APPLICATION INFO.:	US 2002-165297		20020606 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Sergeant, Rabon		
LEGAL REPRESENTATIVE:	Gil, Joseph C., Brown, N. Denise		
NUMBER OF CLAIMS:	26		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)		
LINE COUNT:	1256		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to high performance RIM (reaction injection molded) poly(urethane)urea elastomers, and to a process for their production. These elastomers comprise the reaction product of an allophanate-modified diphenylmethane diisocyanate prepolymer having an NCO group content of about 5 to about 30%, with an isocyanate-reactive component comprising a high molecular weight amine-terminated polyether polyol, an aromatic diamine chain extender, and, optionally, a chain extender or crosslinker selected from the group consisting of aliphatic amine terminated polyether polyols and aliphatic hydroxyl terminated polyether polyols, optionally, in the presence of an internal mold release agent, a surfactant and a filler.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d his

(FILE 'HOME' ENTERED AT 08:06:06 ON 17 JUL 2008)

FILE '1MOBILITY, 2MOBILITY, ALUMINIUM, ANTE, APOLLIT, BABS, CAPLUS, CBNB, CEABA-VTB, CERAB, CIN, CIVILENG, COMPENDEX, COPPERLIT, CORROSION, DKF, EMA, ENERGY, HEALSAFE, IFIPAT, INSPEC, INSPHYS, MATBUS, MDF, MECHENG, METADEX, MSDS-CCOHS, MSDS-OHS, PASCAL, ...' ENTERED AT 08:07:07 ON 17 JUL 2008

L1 4054 S FLEXIBLE (L) POLYURETHANE (L) DIOL (L) TRIOL
L2 0 S L1 (L) HYDRODROFORMYLATION (L) RANEY (2W) NICKEL
L3 8 S L1 (L) HYDROFORMYLATION (L) (RANEY (2W) NICKEL)
L4 57 S L1 (L) (RANEY (2W) NICKEL)
L5 49 S L4 NOT L3

L6 45 S L5 AND RATIO
L7 33 S L6 AND (ETHANOL OR METHANOL OR PROPANOL)
L8 2442 S L1 AND FOAM
L9 54 S L8 AND (RANEY (2W) NICKEL) AND RATIO
L10 42 S L9 AND (METHANOL OR ETHANOL OR PROPANOL)
L11 36 S L10 NOT L3
L12 2320 S FLEXIBLE (L) POLYURETHANE (L) FOAM (L) DIOL (L) TRIOL (L) MIX
L13 43 S L12 AND (METHANOL OR ETHANOL OR PROPANOL) AND (RANEY (2W) NI
L14 56 S L12 AND (RANEY (2W) NICKEL)
L15 49 S L14 AND HYDROGENATION

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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

STN INTERNATIONAL LOGOFF AT 08:51:12 ON 17 JUL 2008